INNOVATIONS AND INSIGHTS : TRENDS IN COMMERCE, MANAGEMENT AND SUSTAINABILITY

Editors:

Ms. K. Sindhuri

Dr. P. Sopna

MAGESTIC TECHNOLOGY SOLUTIONS (P) LTD.

Magestic Technology Solutions (P) Ltd.
Chennai, Tamil Nadu, India
E-mail: info@magesticts.com
Website: www.magesticts.com

Published by:

Magestic Technology Solutions (P) Ltd. [2025]

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ISBN: 978-93-92090-78-3
First Published: 5th April 2025
DOI: www.doi.org/10.47716/978-93-92090-78-3
Price: 450/-
No. of. Pages: 228

ISBN 978-93-92090-78-3
9 789392 090783 >

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Name of the Edited Book:
Innovations and Insights : Trends in Commerce, Management, and Sustainability

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ISBN: 978-93-92090-78-3
Volume: I
Edition: First

Printed & Published by:
Magestic Technology Solutions (P) Ltd, Chennai, India.
info@magesticts.com |www.magesticts.com

Magestic Technology Solutions (P) Ltd.
544, Anna Street, Kathirvedu, Chennai, Tamil Nadu, India
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Website: www.magesticts.com

VANIJYA VIPANI 2024
The 1st Virtual International Conference
on
Emerging Trends in Commerce Management and Sustainability
20th and 21st November 2024

Organized by
R.B.V.R.R. Women's College
Hyderabad, Telangana, India

In Collaboration with

United College of Arts and Science
Coimbatore, Tamil Nadu, India

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Monthly Product Sales Chart
15,000
0
Jan
Feb
Mar
May
June
Jul
Aug
Sep
75,000

Prof. G. Sudarshan Reddy
Secretary Cum Correspondent
R.B.V.R.R. Women's College

Message

I am Profoundly grateful to express my persuasion related to the essence of 'Vanijya Vipani' 2024 -The Ist Virtual international conference on "Emerging Trends in commerce, management and sustainability" organized by Department of commerce, R.B.V.R.R Women's college, Hyderabad, Telangana in collaboration with United college of Arts And science, Coimbatore, Tamil Nadu.

The Sustainability trends are converging with business, prioritizing environmental, social, and economic integration, circular economy initiatives, supply chains and digital transformation to achieve long-term success. The focus is shifting towards minimizing waste, and maximizing resource utilization through initiatives such as reuse and recycle. Leveraging technology, including AI and IOT to optimize operations, improve performance and engaging with the stakeholders are adopted by the companies along with renewable energy-efficient technologies and practices.

I take this opportunity to congratulate the convenors for organizing the international conference that is significant in present scenario in educational Institutions. The articles presented by eminent faculty members have covered the different perspectives in various fields associated with sustainable trends in commerce and management.

I thank all the participants and authors for their endeavours in contributing to the edited book chapter

Prof. G. Sudarshan Reddy


quality
price
innovation
planning
consumer
viral
recommendation
presentation
manager
sale
place
market
growth
store
marketing
management
blogs
advertising
promotion
branding
business
product
social media
finance
customer
design
distribution
management
internet

Prof. J. Achyutha Devi
Principal
R.B.V.R.R. Women's College

Message

It gives me immense pleasure to write this message to the Proceedings of the "Vanijya Vipani 2024 – The 1st virtual International Conference on Emerging Trends in Commerce, Management and Sustainability" organized by Department of Commerce, R.B.V.R.R. Women's College, Hyderabad, Telangana in collaboration with United College of Arts and Science, Coimbatore, Tamil Nadu and with a great sense of achievement. To be competitive in the ever-evolving world of Commerce and Management, it is critical to stay up to date on the newest global trends and advancements. In recent years, notable changes have been observed in a number of areas, including accounting, technology, markets, human resources management, organizational culture, and digital platforms, e-commerce, corporate social responsibility, globalization, and the role of accountants and accounting standards. Businesses must embrace these changes in order to create strategies that enable them to function efficiently and pursue new opportunities that will enable future generations to satisfy their own requirements. In this connection, I appreciate the Organizing teams of both the Institutions for choosing the appropriate area for the Conference.

The Conference provided a platform for researchers, academics and industry professionals to present their latest findings, share innovative ideas and engage in constructive dialogue. By bringing together experts from across the globe, hailing from diverse backgrounds, Vanijya Vipani stimulated the exchange of interdisciplinary knowledge that can contribute towards helping to solve complex global challenges.

Through the dissemination of cutting-edge research, the papers contributed the most recent findings in the field of Emerging Trends in Commerce, Management, and Sustainability, which ensures that discoveries reach a wider audience worldwide and contributes to the ongoing growth and evolution of scientific and scholarly communities. I hope that this will serve as a catalyst for more research in this field, which will address the sustainability practices and advance our country's economic growth.

I thank all the authors for their valuable contributions and the Editors for their efforts and dedication.

Dr. J. Achyutha Devi

Dr. A. VIJAYA
PRINCIPAL
United College of Arts and Science

Message

I am delighted to write this message to the Proceedings of the "Vanijya Vipani 2024 – The 1st virtual International Conference on Emerging Trends in Commerce, Management and Sustainability" organized by Department of Commerce, R.B.V.R.R. Women's College, Hyderabad, Telangana in collaboration with United College of Arts and Science, Coimbatore, Tamil Nadu.

As new discoveries and trends influence how organizations function, business management is always changing. To stay competitive in today's market, we need to stay up to date on current business practices as technology advances and client expectations change. In addition to creating numerous chances for improved performance, new technologies also brought with them new ramifications for marketing initiatives. Although the business models for these industries may change, new firms will arise, and old businesses will evolve, the demand for essential services related to healthcare, energy and natural resources, water, and emergency services will not go away. The challenge is increasing digital connectivity, which fosters empathy, a greater understanding of the problems facing humanity, and constructive public action.

I would especially like to express my gratitude to the organizers from both the Institutions for effectively executing the conference proceedings. I thank all the authors for their valuable contributions and the Editors for their efforts and dedication.

Dr. A. Vijaya

Ms. K. Sindhuri
Vice-Principal Cum
Academic Coordinator
R.B.V.R.R. Women's College

Message

I feel Privileged to Extend This Message to the proceedings of "Vanijya Vipani 2024- The 1st Virtual international conference on "Emerging trends in commerce, management and sustainability" organized by Department of commerce, R.B.V.R.R Women's college, Hyderabad, Telangana in collaboration with United college of Arts And science, Coimbatore. Tamil Nadu.

The key trends in commerce and management include the rise of digital transformation, sustainable practises, AI and data analytics, and the evolving customer experience, particularly in e-commerce. Sustainable businesses aim to achieve success across three dimensions such as environmental protection, social responsibility and economic viability. Consumes prioritize sustainable products and companies, leading to enhanced brand loyalty and positive public perception. Implementing sustainable practices can lead to reduced energy consumption, waste disposal costs, and resource expenses.

This conference presented an opportunity to the academicians, research scholars to present their new revelations, promote novel thinking and disseminate creative concepts.

I thank all the participants and renowned Authors for their worthwhile effort and invaluable input.

Ms. K. Sindhuri

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INDIA'S SUSTAINABLE GROWTH THROUGH ECO-FRIENDLY BANKING PRACTICES

P. Rose Martina, Vinitha.K
Faculty of Management, SRM Institute of Science and Technology,
Kattankulathur, Chennai.

ABSTRACT

Green banking is like a normal bank that considers social and environmental factors and it is called a paperless bank, sustainable bank," or "ethical bank. Green banks were started with the objective of protecting the environment. The same monitoring authorities also control them, albeit with an additional focus on environmental production. Green banking is a broad term that refers to the practices and regulations that make banks sustainable in economic, environmental, and social dimensions. It focuses on making banking processes and the usage of information technology and physical infrastructure as efficient and effective as possible, with zero or minimal impact on the environment. The objectives of this paper are to identify the green banking practices of customers of private and public sector banks in Chennai and find out the level of customer awareness to adopt green banking services and the factors affecting customers' intentions to adopt green banking practices. Secondary data collection is used for this study through journals, annual reports, and online websites. The Unified Theory of Acceptance and Use of Technology (UTAUT) aims to elucidate the underlying motivations leading to a user's decision to adopt an information system, followed by their ensuing patterns of utilization. Thus, initiatives in green banking are paving the way for sustainable development within the financial sector.

Keywords: *Green banking, green initiatives, Sustainable Development, Environmental responsibility, Green Financing.*

INTRODUCTION

Green finance aims to amplify the flow of finances from banking options like micro-credit, insurance, investments, and more from governmental bodies, private entities, and nonprofit organizations towards high-priority sustainable development initiatives. Essentially, green finance encompasses a range of financial instruments, including investments, loans, and credit facilities, designed to support environmentally responsible and sustainability-focused programs across India. These green financial products target a variety of sectors, such as biodiversity conservation, water purification systems, industrial pollution reduction, energy conservation measures, responses to climate variability, and renewable energy projects, among others. A milestone in 2009 was the inception of the first-ever green bank on Mt. Dora, Florida, within the United States. Nonetheless, it was the State Bank of India (SBI) that pioneered the integration of green practices and approaches within the banking industry. The inauguration of these green efforts in Coimbatore has ushered in a transformative shift within the financial sector, propelling environmentally conscious initiatives to new fiscal heights.

The finance sector is a pivotal driver of economic growth and progress, both qualitatively and quantitatively, which transforms the dynamics of economic advancement. In this context, the banking industry is instrumental in promoting investments that are both environmentally sustainable and socially conscious. While banks may not directly contribute to pollution, they are often financially linked to companies or potential projects that do pollute.

The concept of green banking involves the judicious use of a bank's resources, the minimization of waste, and the prioritization of sustainable options. Also referred to as eco-friendly banking, ethical banking, or sustainable banking, green banking integrates social and ecological considerations to safeguard the environment and preserve resources. The Indian Banks' Association defines a green bank as an institution that operates similarly to traditional banks but with a commitment to environmental and social considerations aimed at environmental protection and resource conservation. For those in the field, green banking encompasses principles of sustainability, responsible lending, conservation, and energy efficiency. The range of green financial products includes online services such as internet banking, green credit cards and loans, ATMs, mobile and remote deposit services, eco-friendly market accounts and checking accounts, as well as initiatives like eco-conscious housing.

The adoption of eco-friendly policies and practices adds value to the financial industry by fostering trust and reputation related to environmental responsibility. The Banking Sector is critical for the comprehensive growth of a country's financial system. As noted by Finance Minister Arun Jaitley in his FY 2016-17 budget speech (CII-Deloitte report), it is essential for sustainable development. Banks that balance economic performance with environmental stewardship are recognized as 'Green Banks.' Echoing this sentiment is the statement from the Indian Banks Association (IBA), which underscores that a 'Green Bank' operates in line with standard banks while also carefully weighing social and ecological impacts with an overarching objective to protect our natural surroundings.

OBJECTIVES

To identify the green banking practices of customers of private and public sector banks in Chennai.

To find out the level of customer awareness to adopt green banking services.

To find out the factors affecting customers' intentions to adopt green banking practices

RESEARCH METHODOLOGY

Secondary data used for this paper. Collected through journals, annual report and online websites.

GREEN BANKING INITIATIVES IN INDIA

Internet Banking	Self service passbook printer
Mobile Banking	Cash deposit machine
Online Banking	Remote deposit
Tele banking	Green saving accounts
ECS, EFT, RTGS	Green channel counters
ATM	Green money market accounts
Green Credit card, debit card	Solar & wind mills
Green loan	E- investment services
Green homes	Mutual Fund investment
Green mortgages	Cheque on recycled paper

GREEN BANKING INITIATIVES BY INDIAN BANKS

SBI –

Green banking was implemented by Bigtree Channel Counter," launched by SBI on July 1, 2010, for the purpose of depositing, transferring, and withdrawing cash with the help of customers' debit cards. SBI launched so many cards, such as the Green Remit Card, Foreign Travel Card, eZ Pay Card, Gift Card, Smart Payout Card, and Store Value Card. It also provides green car loans, greenhouse loans, and a solar ATM. SBI is the first bank to install 10 windmills with 15 MW capacity in Tamil Nadu, Maharashtra, and Gujarat. Introducing mobile banking apps like YONO, SBI Anywhere, SBI Buddy, and the State Bank Freedom App.

2. CANARA BANK

Canara Bank started its green initiative in 2011. This bank launched high-tech equipment in all branches, such as passbook printing machines, KIOSK ATMs, and cash and cheque accepting machines. solar energy projects, windmills. Developed various mobile applications like Canara Bank Mobile Banking and Canara e-Info book Bilingual.

3. INDIAN BANK AND UNION BANK

It also started green banking initiatives. IndPay by Indian Bank, U-Mobile, and Union Sahyog are the various mobile apps for their customers.

4. INDIAN OVERSEAS BANK:

Bank launched the customer apps IOB Nanban, IOB Mobile, and ATM with the help of GPS in the app.Banks also introduced an "interactive online Facebook chatbot," the Bharat Bill Payment System (BBPS).IOB Sahayak: Staff App, IOP Pay – Online PG Platform, Online MSME Loan Processing; BHIM Aadhaar. The bank also introduced so many expert applications such as "artificial intelligence based applications, web based applications, Robotic process automation, payment processing technologies, and chat based banking" in 2017 and 2018.

5.ICICI:

Green banking started in 2007. The bank offers so many green banking products and services for their customers, such as online banking, vehicle financing, and home financing. Mobile apps like iMobile, Mera iMobile . ICICI also ties up with the government and the World Bank to allocate funds for green research initiatives.

6. HDFC BANK LTD.:

This bank started green banking initiatives in September 2014. e-statements, balance checking. launched a solar-powered ATM with lithium-ion batteries. HDFC Bank Mobile Banking was introduced as a part of the green initiative.

7. AXIS BANK LTD.

Axis Bank started green banking initiatives in 2011 and beyond. As part of greening, the bank sends all the statements and reports through e-mail and has also introduced solar-powered ATMs in Coimbatore. Axis Mobile: Fund transfer started.

8. PUNJAB NATIONAL BANK:

This bank took so many initiatives on 2009 for reducing carbon foot print from banking activity.launched various mobile applications like PNB ONE and PNB Mobiease.loan, which provide wind and solar energy projects

9. IDBI BANK:

The bank effectively participated in the green initiative in 2011. As a part of its green initiatives, the bank established mobile apps like IDBI Bank GO Mobile+ and IDBI Passbook.

10. BANK OF BARODA:

It started the green banking initiative in 2013. Projects such as windmills and solar power projects. E-banking facility to their customers. The bank introduced software applications, i.e., M-Connect Plus.

UTAUT MODEL USE FOR GREEN BANKING

The UTAUT model has been initiated since the beginning of the 20th century and is still in evaluation. One of the most developed and intensive models to test technology adoption and acceptance It was developed to examine the ability of users to accept technology and their intention to adopt new technology. It has a minimum amount of compliance according to its limited number of constructs and moderating variables that make it more applicable and understandable to study the acceptance behaviour of any new technology. This theory focused on the psychological and behavioural views of the users of technology.

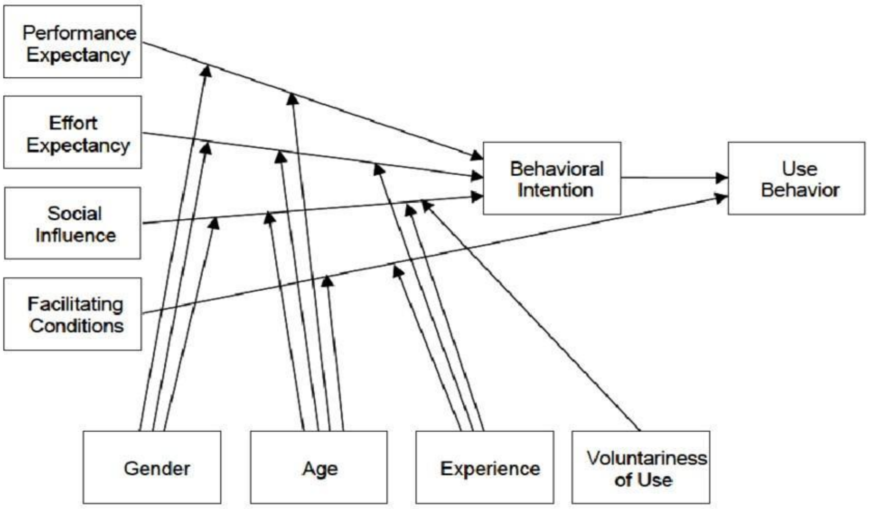
Performance Expectancy: Deliver advantages and boost proficiency to align with user anticipations. Performance Expectancy (PE) is essentially the perception a person has regarding how the use of a certain system can potentially improve their job performance. It embodies the firm belief in the value-added and efficiencies that the utilization of the system stands to offer in their vocational activities. [6]. Performance expectancy is rooted in a synthesis of five contributory elements: the perceived ease of use from the technology acceptance model, external motivation drawn from the motivational model, the suitability to the task from the personal computer utilisation model, a comparative benefit as proposed by the innovation diffusion theory, and the anticipation of results in line with the social cognition theory [7]. "Performance expectancy is the individual's belief that using a system will enhance their job performance.[8]. Performance expectancy, a key element within the Unified Theory of Acceptance and Usage of Technology (UTAUT) framework, has garnered significant focus from numerous scholars across various human activity sectors [9]

Effort Expectancy: Effort expectancy represents a key component within the UTAUT framework, gauging the degree of simplicity linked to employing a specific information technology. [6] Effort expectancy can be described as the degree to which individuals or organizations perceive that their use of open data technology will not require much effort.[10].

Social Influence: Social influence refers to the extent to which a person perceives that significant others expect them to adopt a new system. [6] The intentions behind using open data can be swayed by social influence; the views and actions of peers, management, and other individuals could impact an individual's decision to engage with an open data platform. While targeted strategies aimed at encouraging the adoption of open data among prospective users may have a positive effect on their intentions to use it, it is believed that there has been minimal research conducted on these initiatives to date (Martin, 2014).[6]

FACILITATING CONDITIONS:

He argues that supportive conditions are closely linked to the intention to adopt and incorporate new technologies into behavior. [11] Enabling factors contribute positively and significantly to the intent to adopt a new technology initially; however, their influence wanes post-adoption. Consequently, the theory suggests that these facilitating conditions maintain a direct and substantial impact on actual usage behavior. (Venkatesh et al., 2003).[6].



(Venkatesh et al., 2003, p. 447).[6]

Statement of the problem

The adoption of green banking services has gained increasing attention due to the urgent need for sustainable financial practices. However, there is a gap in understanding the factors that influence individuals' adoption of green banking services and the role of financial literacy in shaping user behaviour. This knowledge gap hinders the development of effective strategies to promote green banking services and limits the potential for positive environmental impact. Therefore, it is crucial to investigate the factors that drive or hinder the adoption of green banking services and to explore how financial literacy influences individuals' understanding, attitudes, and decision-making regarding sustainable banking practices. By addressing this problem, this research aims to contribute to the existing literature and provide valuable insights for financial institutions, policymakers, and individuals interested in promoting environmentally responsible financial behavior.

CONCLUSION

The banking sector plays a pivotal role in the economic position of the nation. So, the bank needs to adopt effective and efficient new technologies and techniques. Banks and financial institutions need to invest in GB. It’s minimizing the damage of unchecked growth and corruption in the financial sector.GB will make it easier to raise the asset quality of banks in the future to provide to a commercial bank. GBP maintains an ecological balance. So it’s known as ethical banking, friendly banking, or sustainable banking. More financial facilities and durable production at a reduced cost compared to conventional banking services. Very little research is available to determine the effects that personal, technological, and environmental factors have on customers' intentions to use green banking services. Few studies are conducted solely to determine customer knowledge of green banking. Studies on the role of financial literacy on the use behavior of customers of Green Banking are not available.

REFERENCES

1. Bouteraa, M., Raja Hisham, R. R. I., & Zainol, Z. (2023). Challenges affecting bank consumers’ intention to adopt green banking technology in the UAE: A UTAUT-based mixed-methods approach. *Journal of Islamic Marketing, 14*(10), 2466–2501. https://doi.org/10.1108/JIMA-02-2022-0039
2. Gwebu, K. L., & Wang, J. (2011). Adoption of open-source software: The role of social identification. *Decision Support Systems, 51*(1), 220–229. https://doi.org/10.1016/j.dss.2010.12.010
3. Kala, K. N. (n.d.). A study on the impact of green banking practices on a bank’s environmental performance with special reference to Coimbatore City. *African Journal of Business and Economic Research, 15*(2020). https://doi.org/10.31920/1750
4. Mir, A. A., & Bhat, A. A. (2022). Green banking and sustainability: A review. *Arab Gulf Journal of Scientific Research, 40*(3), 247–263. https://doi.org/10.1108/AGJSR-04-2022-0017
5. Onaolapo, S., & Oyewole, O. (2018). Performance expectancy, effort expectancy, and facilitating conditions as factors influencing smartphone use for mobile learning by postgraduate students of the University of Ibadan, Nigeria. *Interdisciplinary Journal of E-Skills and Lifelong Learning, 14*, 95–115. https://doi.org/10.28945/4085
6. Rakesh, D., & Mahavidyapeetha, D. J. (n.d.). Green banking: A conceptual study on its issues, challenges, and sustainable growth in India. *Strategic Management View Project.* Retrieved from https://www.researchgate.net/publication/346439882
7. Sangisetti, M. (n.d.). Green banking practices and strategies for sustainable

development of India. Retrieved from https://www.researchgate.net/publication/366618506

8. Venkatesh, V., Morris, M. G., Davis, G. B., & Davis, F. D. (2003). User acceptance of information technology: Toward a unified view. *MIS Quarterly, 27*(3), 425–478.
9. Venkatesh, V., & Davis, F. D. (2000). Theoretical extension of the Technology Acceptance Model: Four longitudinal field studies. *Management Science, 46*(2), 186–204. https://doi.org/10.1287/mnsc.46.2.186.11926
10. Venkatesh, V., Thong, J. Y. L., & Xu, X. (2016). Unified theory of acceptance and use of technology: A synthesis and the road ahead. *Journal of the Association for Information Systems, 17,* 328–376.
11. Vijai, C. (2018). A study on customers' awareness of green banking initiatives in selected public and private sector banks with special reference to Cuddalore District. *International Journal of Innovative Research in Science, Engineering and Technology, 7*(11), 1033. https://doi.org/10.15680/IJIRSET.2018.0711033

EMERGING FINTECH TRENDS: A SYSTEMATIC REVIEW OF BENEFITS, CHALLENGES, AND FUTURE DIRECTIONS

S. Saileja, Mary Vijaya Sri. A, Veeranari
Chakali Ilamma Women's University (Formerly University College for Women), Koti, Hyderabad, Telangana.

ABSTRACT

Financial technology refers to the use of new technologies to enhance, automate, and streamline financial processes for consumers and businesses, making these processes faster, more efficient, and more accessible. The financial technology sector is fundamentally changing the way people manage their money, conduct transactions, and invest.

This paper provides detailed insights into the evolving FinTech landscape, highlighting the latest trends and innovations in digital payments, cryptocurrency, blockchain technology, robo-advisory services, decentralized finance (DeFi), and InsurTech. As FinTech reshapes the financial industry, this paper reviews its benefits, such as greater accessibility, improved efficiency, and enhanced customer experiences. It also addresses challenges such as cybersecurity risks, regulatory compliance, and the need for financial inclusivity. Furthermore, the paper explores strategies to overcome these challenges and remain competitive in the FinTech market.

By examining current developments and future possibilities in FinTech, this paper concludes that FinTech will play a critical role in creating a more sustainable, accessible, and customer-centric financial system through the effective integration of technology with financial services.

KEYWORDS

Automate, Customer-centric, Decentralized Finance, FinTech, Financial inclusivity, Robo-advisory.

INTRODUCTION

The term "FinTech" is a combination of the words "Financial" and "Technology." It refers to the use of any software, app, or technology that helps individuals or businesses access and manage their finances digitally and conduct financial transactions. The term "FinTech" was first introduced in the 1990s, although its foundation dates back to the 1950s and 1960s.

THE EVOLUTION OF FINTECH

1950s–1960s: THE FOUNDATION OF FINTECH

Post-World War II, digital banking systems began to emerge, particularly with the introduction of credit cards in the 1950s and the development of the first automated teller machines (ATMs) in the 1960s. These innovations revolutionized the financial landscape by providing consumers with exceptional convenience and significantly increasing access to financial services, marking the first significant wave of FinTech.

2000s: THE RISE OF ONLINE BANKING

With the expansion of the digital economy in the 2000s, financial services entered a new era of delivery and consumption. The advancement of internet technology and the growing presence of personal computers transformed online banking from a mere innovation into a core aspect of banking.

Before the rise of the digital era in the 2000s, banking was predominantly branch-centered, requiring in-person visits for most transactions. However, the advent of online banking started to change this dynamic. Banks recognized the necessity of offering digital services to remain competitive and meet customers' increasing expectations for more flexible, digital options. Online banking enabled users to manage transactions, view balances, and access financial information from the comfort of their homes, providing a new level of convenience and service efficiency.

2010s: THE MOBILE REVOLUTION AND BLOCKCHAIN TECHNOLOGY

The 2010s marked a transformative period for FinTech, with the rapid expansion of smartphone availability and widespread internet connectivity driving the adoption of FinTech services.

Mobile banking apps allowed customers to access financial services without visiting physical branches. Meanwhile, the growing popularity of digital wallets, such as Apple Pay, Google Wallet, and Samsung Pay, provided users with greater access to digital payments.

The launch of Bitcoin in 2009 introduced blockchain technology, bringing new levels of security and transparency to finance by eliminating intermediaries. This innovation paved the way for other cryptocurrencies, including Ethereum, Litecoin, and Ripple, setting the stage for decentralized finance (DeFi).

Additionally, peer-to-peer (P2P) lending platforms, such as LendingClub and Prosper, disrupted traditional banking by enabling individuals to borrow and lend money directly to one another.

PRESENT AND BEYOND

Today's FinTech has transformed almost every financial service, paving the way for faster, smarter, more advanced, and more inclusive financial solutions. Robo-advisors like Betterment and Wealthfront have made investing accessible to a wider audience, particularly younger investors. Meanwhile, InsurTech firms like Lemonade leverage AI and data analytics to simplify the insurance process, boosting efficiency and enhancing customer experience.

FinTech today is increasingly focused on improving accessibility, efficiency, and customer empowerment.

REVIEW OF LITERATURE

JONATHAN FU ET AL. (2022) – FINTECH IN THE TIME OF COVID-19: TECHNOLOGICAL ADOPTION DURING CRISES

This study, published in the *Journal of Financial Intermediation*, explores the acceleration of FinTech adoption during the COVID-19 pandemic and its impact on financial services. During this period, there was a significant increase in the use of digital payment systems, online lending, and investment apps.

The chapter discusses the shift to digital channels, particularly in developing economies, where traditional banking systems struggled to keep up with the fast-changing financial landscape. It also highlights concerns raised by the rapid growth of FinTech, including consumer protection, data privacy, and market risk.

A key focus of this study is financial inclusion, which has been lacking in traditional banking systems. Many households and small businesses turned to FinTech services as a financial lifeline during the crisis. The study concludes that the pandemic has accelerated FinTech adoption, presenting both opportunities and challenges. It also underscores the need for regulators and policymakers to address the risks associated with FinTech while ensuring its benefits are shared equitably.

ERIC FEYEN ET AL. (2021) – FINTECH AND THE DIGITAL TRANSFORMATION OF FINANCIAL SERVICES: IMPLICATIONS FOR MARKET STRUCTURE AND PUBLIC POLICY

This study, published as BIS Paper No. 117, examines the transformative impact of FinTech and digital innovation on financial services. New entrants, including BigTech firms, are reshaping payments, lending, borrowing, and insurance services worldwide. The paper explores implications for competition, regulation, and consumer protection.

Digital technologies have improved efficiency, accessibility, and reduced transaction costs. However, they have also raised concerns regarding market concentration and privacy issues. Regulators face challenges in maintaining a level playing field while balancing competition, financial stability, and consumer protection in the digital finance landscape.

The entry of BigTech firms into the market is not only challenging traditional banks but also raising significant privacy concerns. This paper emphasizes that as the financial landscape evolves, regulatory coordination is essential to managing competition, ensuring financial stability, and protecting consumers. Economies of scale and scope remain significant in the digital financial ecosystem.

EMERGING FINTECH TRENDS

DIGITAL PAYMENTS SYSTEM

The digital payments system refers to various digital channels and platforms that facilitate the exchange of money electronically, rather than through traditional physical cash. These platforms include mobile wallets, contactless payment cards, and peer-to-peer (P2P) transfer applications.

Digital payment systems utilize secure channels, often integrating biometric authentication, multi-factor authentication, and encryption to ensure user safety. These systems provide individuals and businesses with reliable and globally accessible methods to conduct transactions via mobile phones, computers, and laptops—making financial processes faster, more efficient, and better suited to modern needs.

MOBILE WALLETS

Mobile wallets such as Apple Pay, Google Wallet, and WeChat Pay use Near Field Communication (NFC) for contactless payments, enabling users to transact without physical cash or cards.

In India, following the demonetization in 2016, mobile wallets like Google Pay, Paytm, and

PhonePe became widespread, allowing users to carry out transactions and access several government services digitally.

CONTACTLESS PAYMENTS

Contactless payments through Near Field Communication (NFC) have gained traction globally, particularly in the USA, Europe, and Southeast Asia, where touchless transactions are preferred. After the COVID-19 pandemic, tap-to-pay systems became more popular due to hygiene concerns and convenience. In India, alongside mobile apps like Samsung Pay, NFC-enabled credit and debit cards are increasingly utilized.

PEER-TO-PEER (P2P) PAYMENT PLATFORMS

Globally, platforms like PayPal, Venmo, and Zelle facilitate peer-to-peer payments, making informal transactions seamless. In India, the Unified Payments Interface (UPI) system has enhanced P2P transfers, allowing instant money transfers through virtual payment addresses with the help of apps like Google Pay and PhonePe. P2P systems are essential in promoting financial inclusivity, particularly for low-value transactions.

UNIFIED PAYMENTS INTERFACE (UPI)

Digital transactions in India have been transformed with the introduction of UPI, which enables real-time bank-to-bank transfers through mobile apps and virtual payment addresses, simplifying the process. UPI has played a critical role in the financial inclusion of underserved populations and small vendors.

QR CODE PAYMENTS

QR code payments have gained popularity in recent years, especially in Asia. Platforms like WeChat Pay and Alipay in China and BharatPe, PhonePe, and Paytm in India have revolutionized digital transactions. UPI-linked QR codes enable businesses—from large retailers to small vendors—to accept payments easily at any time.

MARKET GROWTH AND ADOPTION RATES

The global digital payments market is set to grow significantly, with a projected 15% annual growth rate until 2027. Mobile wallets, in particular, are experiencing rapid growth, estimated at 17% annually, mainly in the Asia-Pacific region, where 70% of e-commerce sales take place. In India, the Unified Payments Interface (UPI) is achieving remarkable success, processing over 9 billion transactions per month. In the U.S. and Europe, digital wallets like PayPal, Venmo, and Apple Pay are becoming increasingly common, with PayPal holding 36% of the U.S. digital wallet market.

CASE STUDY: BHARATPE – REVOLUTIONIZING MERCHANT PAYMENTS IN INDIA

In India's fast-growing digital market, BharatPe emerged as a game-changer by enabling cost-free digital payments for micro-merchants. It bridged the gap between small-scale merchants and digital finance, advancing financial inclusion across various sectors.

Launched in 2018, BharatPe rapidly gained traction among micro-merchants by offering a zero-fee UPI QR code system that supports payments from any digital wallet. By 2023, BharatPe had empowered over 10 million merchants across 140+ cities, facilitating digital payments with zero transaction fees. This initiative benefited street vendors and small merchants, enabling broader digital adoption in a traditionally cash-based market.

Beyond payments, BharatPe also provided interest-free loans and working capital to merchants, driving financial inclusion and addressing gaps that traditional banks rarely covered. Contributing to India’s push toward a cashless economy, BharatPe’s model has become a symbol of FinTech innovation.

BLOCKCHAIN TECHNOLOGY

Blockchain is a decentralized digital ledger that records transactions securely and transparently across a distributed network of computers. Unlike traditional centralized databases, blockchain operates on a peer-to-peer network, where information is stored across multiple nodes.

Each “block” contains a set of transactions. Once verified, it is cryptographically linked to the previous block in a secure chain, ensuring data security and integrity. This structure makes blockchain highly resistant to fraud and tampering, ensuring transparency, immutability, and security.

Initially used in cryptocurrencies like Bitcoin, blockchain technology has expanded into diverse sectors:

- **Finance:** Facilitates faster, more secure transactions without intermediaries, reducing costs.
- **Supply Chain:** Provides real-time tracking of goods, enhancing transparency and reducing fraud.
- **Healthcare:** Ensures secure storage and sharing of patient data.
- **Smart Contracts:** Enables self-executing contracts that activate automatically when predefined conditions are met.

This technology is transforming industries, revolutionizing traditional business practices, and enhancing **trust in digital transactions**.

DECENTRALIZED FINANCE (DEFI) INTEGRATION WITH BLOCKCHAIN

The integration of DeFi with blockchain technology is reshaping the financial landscape by eliminating the need for central authorities. By removing intermediaries, DeFi offers decentralized platforms for lending, borrowing, and trading, powered by blockchain protocols. This shift impacts industries such as insurance, real estate, and traditional banking, streamlining operations, reducing costs, and fostering innovation in financial services.

BLOCKCHAIN FOR REAL-WORLD ASSET TOKENIZATION

The tokenization of real-world assets on blockchain is gaining traction, particularly in industries like real estate, fine art, and commodities. Blockchain technology facilitates fractional ownership, enabling broader market participation and decentralized trading by converting physical assets into digital tokens.

This innovation allows smaller investors to enter markets traditionally limited to the wealthy. By increasing liquidity, tokenization fosters financial inclusivity and efficient, decentralized trading platforms that enhance market access.

BLOCKCHAIN'S ROLE IN DATA PRIVACY AND AI INTEGRATION

Blockchain technology plays a crucial role in identity verification and secure data sharing. Its decentralized nature ensures that personal information remains protected from unauthorized access.

Additionally, AI integration with blockchain is creating new possibilities for decentralized applications that enhance data storage, automate services, and improve data processing.

Projects like Fetch.ai are pioneering blockchain-powered AI services, including decentralized GPU networks, which improve data processing and drive innovation in privacy-focused AI applications.

Cryptocurrency

Cryptocurrency has emerged as a transformative element within the fintech sector, offering an innovative alternative to traditional financial systems. Leveraging blockchain technology, cryptocurrencies such as Bitcoin, Ethereum, and stablecoins offer decentralized alternatives to traditional financial systems, enabling faster, borderless transactions without intermediaries. The growth of DeFi platforms is accelerating the use of cryptocurrencies for lending, borrowing, and trading, providing seamless alternatives to conventional financial systems and continuing to challenge traditional banking models despite their inherent volatility.

• Central Bank Digital Currency (CBDCs)

Central Bank Digital Currencies (CBDCs) are digital versions of national currencies issued and regulated by central banks. Designed to complement national payment systems, CBDCs offer an alternative to cryptocurrencies with the added benefit of regulatory oversight. Countries like China and Sweden are already testing CBDCs, aiming to improve financial inclusion and facilitate global trade.

• Sustainability and Green Cryptocurrencies

Green cryptocurrencies use low-energy consensus mechanisms like Proof-of-Stake (PoS) to replace the high energy consumption of Proof-of-Work (PoW). This transition helps lower the carbon footprints of crypto networks, making them more aligned with global sustainability goals. Major projects like Ethereum 2.0 are working to reduce energy usage without compromising performance.

• Privacy Coins

Privacy coins, such as Monero (XMR) and Zcash (ZEC), are becoming popular as concerns over data privacy continue to increase. These cryptocurrencies use advanced encryption techniques to ensure that transaction details remain confidential. As demand for anonymous financial solutions grows, these coins are expected to see broader adoption in the crypto ecosystem.

• Stablecoins

Stablecoins, such as Tether (USDT) and USD Coin (USDC), are increasingly being adopted for everyday transactions due to their price stability. Stablecoins are pegged to assets like the U.S. dollar, ensuring a steady store of value, making them ideal for purchases, remittances, and microtransactions. Businesses and consumers are turning to stablecoins for secure, low-cost transactions, playing a crucial role in the broader acceptance of cryptocurrencies as a mainstream payment method.

Case Study: Bitcoin and Its Impact on the Financial Landscape

Bitcoin, the first cryptocurrency, launched in 2009 by Satoshi Nakamoto, marked the beginning of decentralized digital currency. It revolutionized digital payments by leveraging blockchain technology and allowing peer-to-peer transactions by eliminating intermediaries, enabling low-cost cross-border payments. Bitcoin has been accepted by over 50,000 merchants worldwide as payment. Despite significant price volatility, its adoption has risen with the investments of major companies like Tesla and MicroStrategy. Despite market fluctuations and regulatory restrictions, Bitcoin has remained a major player in the fintech landscape.

Robo-Advisory and Automated Investing

Robo-advisory platforms are transforming personal finance by offering automated investment management services. These platforms are algorithm-driven to assess clients' financial situations, goals, and risk tolerance before recommending personalized investment strategies. By eliminating the need for human advisors, robo-advisors offer cost-effective, low-fee solutions, providing access to investment opportunities, especially for individuals with smaller capital. Popular platforms like Betterment and Wealthfront rely on low-cost exchange-traded funds (ETFs) to help investors build diversified portfolios with ease. Robo-advisory platforms are increasingly adopting advanced technologies like AI and machine learning to create more personalized investment strategies. Additionally, they are offering ethical and sustainable investment options to meet the demands of socially conscious investors. Many platforms are adopting hybrid models, combining the automation of robo-advisors with human expertise, providing personalized advice for more complex financial situations. Robo-advisors are becoming key players in the future of investments, offering low-cost, flexible, and inclusive financial solutions.

Market Growth and Adoption

The robo-advisory market is growing rapidly, with assets under management expected to surpass $2 trillion by 2025. Millennials and Gen Z, who are digital natives, are the driving force behind this growth, preferring automated financial solutions over traditional ones. The accelerated shift towards online financial services due to the COVID-19 pandemic further increased the adoption of automated investing platforms.

Case Study: Betterment and Its Impact on the Investment Industry

Betterment has become one of the leading robo-advisors, managing over $30 billion in assets by 2023. The platform provides its advisory services at low costs, at a fraction of traditional advisory fees, typically 0.25% annually. Its user base has grown by more than 200% in recent years, reflecting its growing demand in the market. Betterment's disruption of the traditional wealth management industry highlights how these platforms are reshaping the financial landscape.

InsurTech and Digital Insurance

InsurTech is transforming the traditional insurance landscape by integrating technology like

AI, machine learning, and the Internet of Things (IoT). Digital insurance platforms are helping insurers assess risk more precisely, offer personalized insurance policies, and streamline claims processing. These platforms allow users to gather data from multiple sources, analyze it for accurate risk assessments, and adjust premiums dynamically. With the help of automation and big data, these companies can reduce operational costs and speed up claim settlements, creating more efficient systems, enhancing customer experience, accessibility, and affordability.

Market Growth and Adoption Rates

InsurTech has rapidly expanded, with global investment in the sector surpassing $7 billion recently. Consumers are increasingly attracted to digital solutions offering on-demand services and AI-driven customer support. Mobile-based insurance models are becoming popular in Asia, where the microinsurance market is expected to grow by 20% annually, providing coverage for over 300 million people in underserved regions by 2024. In North America and Europe, the adoption rate of digital insurance products is projected to increase by 15% annually.

Case Study: Lemonade's Impact on the Insurance Industry

Launched in 2015, Lemonade has revolutionized the insurance sector by leveraging AI to offer insurance to renters and homeowners. The company reached over 1.4 million customers by 2022 with a policyholder retention rate of 75% and generated approximately $200 million in annualized premiums. In 2023, the company's business model, including the donation of unused premiums to charity, attracted younger and socially conscious customers, with 40% of its user base under 35 years, further disrupting the market and setting new standards in customer service and transparency.

Benefits of FinTech Innovations

• **Increased Accessibility and Financial Inclusion:** FinTech enables individuals, especially those in remote or underserved regions, to access financial services through innovations like mobile banking and microfinance platforms. Individuals who previously lacked access to traditional banking can now participate in the financial system, promoting financial inclusion.

• **Improved Efficiency and Cost Reduction:** Automation, digital payments, and blockchain-based transactions minimize the need for intermediaries, speeding up processes and reducing costs for both consumers and institutions.

• **Enhanced Customer Experience:** With a focus on user-friendly interfaces and mobile accessibility, FinTech platforms make financial management more convenient and user-friendly. Platforms like digital wallets, robo-advisors, and InsurTech apps provide customized solutions that improve customer satisfaction.

• **Increased Transparency and Security:** Blockchain technology and DeFi applications enhance transparency by recording transactions on immutable ledgers, ensuring greater trust in financial processes. Technologies like biometric authentication and data encryption safeguard user information, providing robust security.

• **Data-Driven Personalization:** FinTech companies use advanced data analytics to tailor products and services based on individual needs and behaviors. This personalization can improve financial outcomes for users by recommending products that align with their financial goals and risk tolerance.

• **Support for Small Businesses:** FinTech has opened new funding options and resources for small businesses through peer-to-peer lending, crowdfunding, and digital payments. These resources help startups and small enterprises access capital more easily, supporting business growth.

Challenges in the FinTech landscape

• Regulatory Compliance and Legal Barriers: FinTech companies face complex and evolving legal regulations that vary widely by region. These regulations are based on data security, anti-money laundering, and consumer protection. Adapting to these regulations can be costly and challenging, especially for small startups. Constantly changing regulations will compel the FinTech firms to frequently update practices to remain compliant. • Cyber Security Risks And Data Privacy: As FinTech companies manage sensitive financial data, they become prime targets for cyberattacks. Protecting the data of the users while maintaining privacy is a major task in hand, especially with increasing consumer expectations around data security and the potential legal consequences due to data breaches.

• Integration With Traditional Financial System: FinTech innovations often find it difficult to integrate with traditional banks and financial institutions as they rely on outdated legacy systems. Ensuring compatibility with these systems is critical for broader adoption and the process can be complex and time consuming.

• Customer Trust and Adoption: Building trust among the consumers who are accustomed to traditional financial institutions can challenging. While younger consumers are more attracted towards FinTech solutions, others might be concerned about the data privacy, which can hinder adoption.

• Operational Scalability: Expanding the FinTech operations to meet a growing customer base while maintaining service quality, infrastructure, and security is a complex task. Many FinTech startups struggle to scale without compromising user experience or incurring reasonable costs, especially in competitive markets.

• Access to funding and capital: Companies can struggle to secure enough capital and access investments for sustained growth, particularly in highly competitive markets. Limited access to funding can restrict the development of new products, putting fintech companies at a disadvantage. Strategies to overcome the challenges in the FinTech landscape

• Designing proactive strategies to anticipate regulatory changes, rather than reacting after the change. Investing in Regulatory Technologies will help to track and adapt to changing regulations in real time, and generate compliance reports, to stay ahead of regulatory demands

• Investing in advanced cybersecurity strategies and technologies like AI powered fraud detection, end-to-end encryption to protect sensitive customer data. Real-time monitoring systems should be used to reduce potential data breached and losses. Integrating data privacy measures into every stage of development process making data protection a core priority of fintech offerings.

• Collaborating with banks and financial institutions to share knowledge and resources bridging the technology gap, ensuring smoother integration. Creating hybrid systems that can work with both traditional and digital ecosystems can help creating flexibility while collaborating.

• Bringing awareness among the consumers regarding the security features of fintech platforms will help to build confidence and trust among the users. Keeping the customers updated regarding any new measure taken creates transparency thereby building trust. Offering exceptional customer services to resolve issues quickly and build customer loyalty, especially for users unfamiliar with fintech solutions.

• Adopting to cloud-based infrastructure which can scale on demand, will help in reducing significant upfront costs and increasing efficiency. Using automated resource management, service quality can be maintained, even during the growth. Regular performance assessments should be conducted to identify potential bottlenecks and optimize the infrastructure for long-term growth and stability.

• Pursuing funds from venture capital, strategic partnerships and government grants can help to secure capital for growth and expansion. Engaging with partners who understand fintech landscape and are willing to support growth through long-term investments is crucial. Considering alternative funding models like crowd funding and peer-to-peer lending can help to access capital from diverse source beyond traditional investors. Ultimately, by embracing these strategies, FinTech companies can effectively tackle the challenges while fostering growth. This proactive approach will help them to stay ahead in a fast-evolving industry.

Conclusion

The rapid evolution of financial technologies is significantly reshaping the global financial ecosystem, fostering increased financial inclusion, enhanced accessibility, and more efficient service delivery. Key trends such as digital wallets, blockchain, cryptocurrencies, robo advisory, InsurTech etc., are revolutionizing how consumers and businesses engage with financial services. The rise of mobile wallets, peer-to-peer payment platforms and contactless transactions has streamlines financial operations, particularly in emerging markets like India. These innovations provide greater convenience, accessibility, reliability, and transparency driving the adoption of new FinTech solutions across the globe in diverse sectors. However, as the industry continues to expand, there are several challenges that need addressing. Regulatory compliance, data privacy concerns, and cyber security threats pose significant risk, requiring ongoing innovation and collaboration between FinTech firms, regulators, and traditional financial institutions. Additionally, while the potential for FinTech to disrupt traditional banking is immense, the integration of new technologies with legacy systems remains a complex hurdle. As FinTech evolves, ensuring that these challenges are met will be crucial for maintaining trust, protecting consumer interests, and ensuring equitable access to financial services. This can be achieved by implementing strategies like, establishing robust compliance management systems, strengthening cybersecurity infrastructure, and improving strategic partnerships. Investing in regulatory technologies to stay updated with the changing regulations and building customer loyalty and trust by providing exceptional services are some other strategies. By integrating these practices, FinTech firms can foster sustainable growth in the evolving financial landscape with resilience. Fintech's future appears promising with the potential to further democratize financial services globally. However, this growth should be achieved with balanced approach, one that promotes innovation, simultaneously addressing security, regulatory, and scalability concerns. As the industry develops, continued advancements in AI, Blockchain, and DeFi are likely to push forward FinTech into even more dynamic and inclusive financial system, offering transformative solutions to individuals and businesses worldwide.

REFERENCES

1. Asif, M., Khan, M. N., Tiwari, S., Wani, S. K., & Alam, F. (2023). The impact of fintech and digital financial services on financial inclusion in India. Journal of Risk and Financial Management, 16(2), 122. https://doi.org/10.3390/jrfm16020122
2. A, M., & S, G. B. (2022). India's digital payment landscape – an analysis. International Journal of Case Studies in Business IT and Education, 223–236. https://doi.org/10.47992/ijcsbe.2581.6942.0161
3. Awuni, M. (2019). Robo-advisory: The new paradigm in asset management or a millennial fad? International Journal of Contemporary Research and Review, 10(5), 21515–21524. https://doi.org/10.15520/ijcrr.v10i05.701
4. DeVries, P. D. (2016). An analysis of cryptocurrency, Bitcoin, and the future. International Journal of Business Management and Commerce. https://www.researchgate.net/publication/316656878
5. Haque, M. A., & Shoaib, M. (2023). e₹—The digital currency in India: Challenges and prospects. BenchCouncil Transactions on Benchmarks, Standards, and Evaluations, 3(1), 100107. https://doi.org/10.1016/j.tbench.2023.100107
6. Kamuangu, P. (2024). A review on cybersecurity in fintech: Threats, solutions, and future trends. Journal of Economics, Finance, and Accounting Studies, 6(1), 47–53. https://doi.org/10.32996/jefas.2024.6.1.5
7. Kaur, P., & Singh, M. (2023). Exploring the impact of InsurTech adoption in the Indian life insurance industry: A customer satisfaction perspective. The TQM Journal. https://doi.org/10.1108/tqm-06-2023-0186
8. Maity, S., & Majumder, A. (2024). Evolution of fintech in the age of AI: A study concerning the Indian fintech industry. In Apple Academic Press eBooks (pp. 83–118). https://doi.org/10.1201/9781003535133-5
9. Ramkumar, G. (2023). FinTech in India. In Advances in Finance, Accounting, and Economics (pp. 225–250). https://doi.org/10.4018/979-8-3693-0008-4.ch012
10. Saxena, A., Jain, R., & Mandal, A. (2022). Fintech in India: Current status, trends & prospects. Journal of Business Management and Information Systems, 9(2), 21–28. https://doi.org/10.48001/jbmis.2022.0902004
11. Suryono, R. R., Budi, I., & Purwandari, B. (2020). Challenges and trends of financial technology (FinTech): A systematic literature review. Information, 11(12), 590.

STRATEGIC UNIFICATION OF HDFC BANK AND HDFC Ltd: A CASE STUDY OF MERGERS IN INDIAN BANKING

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ABSTRACT:

The strategic unification of HDFC Bank and HDFC Ltd. represents a landmark merger in the Indian banking sector, combining the strengths of India’s largest private sector bank with a premier housing finance company. This merger aims to create a more resilient and competitive entity. A merger is a process wherein two companies combine to form a single new entity, seeking greater efficiency and market strength. By examining the histories of both institutions, this paper highlights the merger’s timelines and key announcements. Through an analysis of pre-merger preparations, integration strategies, and post-merger outcomes, this paper provides valuable insights into the motivations, benefits, and challenges of the merger, as well as the strategies employed to overcome them. The findings underscore the importance of strategic mergers in enhancing market strength and fostering sustainable growth. This paper concludes with lessons learned and a discussion on the future prospects of the merged entity, emphasizing its significance in driving growth and competitiveness within India’s banking sector.

Keywords: *Banking, consolidation, finance, integration, merger, strategic*

INTRODUCTION:

A merger is a strategic process in which two companies combine into a single entity. In the rapidly evolving Indian banking sector, consolidation is a strategy to increase growth, efficiency, and competitiveness. HDFC Bank was established in 1994, and HDFC Ltd. was established in 1977. A merger of HDFC Bank and HDFC Ltd. was announced on April 4, 2022, and completed on July 1, 2023, creating India’s second-largest bank by asset size and the fourth-largest bank in the world. It also transformed HDFC Bank into a financial services conglomerate with subsidiaries in areas like insurance, asset management, etc. This merger brings together India’s largest private sector bank and the country’s premier housing finance company, creating a financial services conglomerate with unparalleled scale, strength, and reach. Speaking on the completion of the merger, Sashi Jagdishan, CEO and MD of HDFC Bank, said, “I’m confident that our combined strength will enable us to create a holistic ecosystem of financial services. We are truly happy to welcome the talented team of HDFC Ltd. into the HDFC Bank family.”

REVIEW OF LITERATURE:

Prof. Tanmoy Bhattacharya. November 2022 - Case Study on Merger Between HDFC Ltd. and HDFC Bank.

JK Business School According to the author, the merger of HDFC Ltd. and HDFC Bank created the largest private sector bank in India. On April 4, 2022, HDFC Ltd. approved the proposal to merge its associates and subsidiaries with HDFC Bank. This merger is likely to have major implications for the financial sector as competition intensifies. Before the merger, HDFC Ltd. had Rs 5.3 trillion worth of assets under management and Rs 4.45 trillion in market capitalization. The author concluded that an amalgamated entity will be more secure for depositors and also beneficial for borrowers. The success of a merger is determined by factors such as corporate growth, shareholder interest, and market expansion. Hence, the study suggests that this merger will be beneficial in enhancing all these elements.

Dr. Sumit Saha. March 2024. Merger of HDFC Bank and HDFC Ltd.: A Well-Defined Product Penetration and Cross-Selling Strategy. VLEARNY Journal of Business According to the author, HDFC Bank was founded in 1994. In January 1995, the financial organization began operations as a Scheduled Commercial Bank. As of June 1, 2023, it had a permanent workforce of 177,000 people. HDFC Ltd. was created in 1977, with Hasmukh Bhai Parekh playing a crucial role in its foundation. It was registered with HDFC Standard Life Insurance, India’s first private-sector life insurance company. This article concluded that owners, employees, shareholders, and customers will benefit from this merger. The merger will result in a financial services giant, with the merged business potentially becoming India’s largest financial institution in terms of deposits and assets. The company’s financials are likely to improve.

HISTORY:

HDFC Bank: HDFC Bank was incorporated on August 30, 1994. The first branch opened in Mumbai, India. It was listed on the Bombay Stock Exchange and the National Stock Exchange in 2001. The bank expanded operations to 100 branches by 2002. It introduced internet banking in 2003 and launched its credit card business in 2004. Mobile banking was introduced in 2010, followed by the launch of an online loan platform in 2012. In 2015, the bank introduced PayZapp. The merger with HDFC Ltd. was completed on July 1, 2023, making HDFC Bank India’s largest private sector bank by assets.

HDFC Ltd.: HDFC Ltd. was incorporated on October 17, 1977, and began operations on January 1, 1978. It introduced housing loans for individuals and developers, as well as home improvement and home extension loans. By 1997, it had crossed $140 million USD in disbursals. It introduced insurance products through HDFC Ergo and expanded its presence to 300 offices across India by 2005. It launched home loan products for NRIs and PIOs and surpassed $14 billion USD in assets under management by 2012. HDFC Ltd. introduced digital platforms for loan applications and approvals and expanded its presence to over 500 offices across India by 2018. The merger with HDFC Bank was announced on April 4, 2022, received regulatory approvals in 2023, and was completed on July 1, 2023.

Fundamental Differences Between HDFC Bank and HDFC Ltd.: HDFC Bank and HDFC Ltd. were two distinct entities with different models and product offerings. HDFC Bank, a full-fledged commercial bank, operated within a broader financial ecosystem. On the other hand, HDFC Ltd. was a non-banking financial company primarily focused on providing housing finance.

HDFC Bank is a private sector bank that offers a wide range of banking and financial services, including investment banking, wholesale banking, retail banking, treasury operations, credit cards, wealth management, and personal and corporate loans. In contrast, HDFC Ltd. was a housing finance company that specialized in housing finance and related services, such as lease rental financing, home loans, deposits, and construction finance.

In terms of regulation, HDFC Bank is governed by the Reserve Bank of India, whereas HDFC Ltd. was regulated by the National Housing Bank.

Motivations Behind the Merger of HDFC Bank and HDFC Ltd.

• **Cost Savings:** The merger eliminates the duplication of functions such as compliance, treasury, regulatory reporting, branch operations, and risk management, resulting in significant cost savings. The combined entity can streamline its operations, leading to reduced overhead costs and improved efficiency. The merger simplifies the governance structure, reducing the number of boards and committees, and leading to further cost savings. Additionally, HDFC Ltd.'s loan book now benefits from the bank's low-cost deposits.

• **Increased Shareholder Value:** The merger creates one of the largest financial institutions in India, with a combined market capitalization of over $150 billion. The combined entity can leverage its increased scale with a larger balance sheet to improve profitability and its ability to fund large infrastructure and corporate projects, resulting in higher returns for shareholders. The merged firm has a diverse product portfolio, leading to cross-selling opportunities. The merger strengthens the combined entity's market presence, enabling it to compete more effectively with other large financial institutions. It enhances long-term growth potential, making it more attractive to investors.

• **Competition and Market Leadership:** The merger is a response to the consolidation trend in the banking sector, where larger banks are acquiring smaller ones to gain scale and competitiveness. The merger enables the combined entity to compete more effectively with fintech companies, global banks, and non-banking financial companies, which are disrupting traditional banking models. It strengthens the combined entity's competitiveness, enabling it to attract and retain top talent, investors, and customers. The combined entity can better compete with SBI, ICICI, and foreign banks in retail banking and housing finance.

• **Digital Services:** The merger enables better integration of technology and digital platforms, allowing for more seamless customer service, loan approvals, and online banking. It enables the combined entity to invest in digital technologies such as cloud computing, blockchain, and artificial intelligence. The combined entity can leverage its digital capabilities to improve the customer experience, resulting in increased customer loyalty and satisfaction. Digital technologies can also help the combined entity improve efficiency, reduce costs, and automate processes.

• **Succession Planning:** The merger provides a smooth transition for HDFC Ltd.'s mortgage business, which can now be integrated with HDFC Bank's existing operations. The merger also provides an opportunity for HDFC Bank's leadership to succeed Deepak Parekh, the current chairman of HDFC Ltd. It can help retain key talent from both organizations, ensuring stability and continuity in the combined entity.

BENEFITS OF HDFC BANK AND HDFC LTD. MERGER:

• **Increased Competitiveness:** The merged entity's scale, efficiency, and diversified offerings will enhance its competitiveness. This merger will position the combined organization strongly against competitors and may also make the loan business more competitive.

• **Market Leadership:** HDFC Bank CEO Sashidhar Jagdishan oversees the amalgamated entity, which has become India's largest private sector bank, strengthening its competitive position. The merger will not only improve capital ratios, but incremental new housing loans will require less capital and generate higher profits due to risk-weight adjustments.

• **Cost Savings:** Synergies from integrating operations, technology, and personnel will lead to significant cost savings. By combining back-office operations, IT systems, branches, and administrative functions, the entity can achieve substantial cost reductions.

• **Integrated Technology Platform:** A unified technology platform will reduce costs, enhance customer experience, and improve risk management. HDFC Bank's advanced digital banking platforms, combined with HDFC Ltd.'s expertise in long-term mortgage financing, will drive further operational efficiency.

• **Improved Risk Management:** The merged entity will benefit from enhanced risk management practices, reducing potential losses. A unified risk management framework will improve alignment between banking and housing finance, strengthening the ability to assess and manage credit risk across both sectors.

• **Job Creation:** The merger created 5,000–7,000 new jobs. It may also lead to job creation in various sectors, including financial services, technology, and real estate, while enhancing opportunities for skill development across these industries.

CHALLENGES AND HOW THEY OVERCAME THOSE CHALLENGES:

• HDFC Bank and HDFC Ltd. had distinct values, corporate cultures, and work environments. Cultural alignment between the two organizations was a challenge. To address this, the cultural integration team conducted training programs and workshops to foster employee transparency and open communication.

• The banks used different software applications, core banking systems, and infrastructure. Integrating disparate technology systems was another significant challenge. To overcome this, the integration team invested in new technology platforms, developed a phased integration roadmap, and conducted thorough system testing.

• As employees and stakeholders needed to adapt to the new entity, change management was critical. The integration team established a change management team, conducted stakeholder engagement initiatives, and communicated clearly throughout the integration process.

• Minimizing disruption to customer services was essential. The integration team conducted customer outreach programs, ensured minimal disruption to services, and enhanced customer support.

• The integration process posed risks, making risk management a crucial challenge. The integration team conducted a risk assessment, implemented risk mitigation strategies, and established a risk monitoring framework.

• Meeting the timeline was crucial. The integration team developed a detailed project timeline, established checkpoints and milestones, and conducted regular progress reviews.

FUTURE PROSPECTS:

The strategic merger of HDFC Bank and HDFC Ltd. creates a powerful financial entity that combines HDFC Bank's banking expertise with HDFC Ltd.'s leadership in housing finance, offering significant growth opportunities. The merger enhances market positioning with a broader customer base and expanded service offerings, particularly in retail banking and home loans. It strengthens its competitive edge in the Indian market, allowing for better economies of scale and potential cost savings. However, the merger also presents challenges, such as regulatory approvals and integration complexities. Ultimately, if well-executed, this merger could reshape India's banking and housing finance sectors, advancing financial inclusion and supporting the government's affordable housing goals while offering new growth avenues and competitive advantages.

LESSONS LEARNED:

The strategic unification of HDFC Bank and HDFC Ltd. offers key lessons for future mergers in Indian banking. First, identifying and maximizing synergies between merging entities is crucial for enhancing operational efficiency and expanding service offerings. Cross-selling opportunities can significantly strengthen customer relationships, and seamless digital integration is essential for staying competitive in the tech-driven financial landscape. Mergers must also prioritize regulatory compliance, proactive engagement with authorities, and careful cultural integration to ensure smooth operations. Geographical expansion into underserved regions can unlock growth potential, while a long-term strategic approach to risk management ensures sustainability. Ultimately, the merger highlights the importance of being customer-centric and leveraging a unified platform to offer comprehensive financial solutions.

FINDINGS:

• Integration will lead to operational efficiency, cost savings, and streamlined processes, resulting in enhanced productivity and reduced costs.

• The merged entity will become India's largest private sector bank, with a significant market share and increased bargaining power.

• Expanded range of banking and financial services, enabling the merged entity to cater to diverse customer needs.

• Expected 15-20% Compound Annual Growth Rate (CAGR), driven by expanded product offerings, increased market share, and improved customer experience.

• Improved credit risk management and asset quality, reducing the risk of non-performing assets.

CONCLUSION:

HDFC Bank successfully completed the merger with HDFC Ltd. The strategic unification of HDFC Bank and HDFC Ltd., creating India's largest private sector bank, represents a landmark transaction in Indian banking, effective from July 1, 2023. This transaction demonstrated the potential for successful mergers in the Indian banking sector. The merger of HDFC Bank and

HDFC Ltd. was beneficial for both entities. This merger will reduce the proportion of unsecured loans provided by HDFC Bank. The combination of both entities strengthens HDFC Bank by adding to the dominant position of HDFC Ltd. in the housing finance sector. Customers, employees, and owners of each company benefited from the merger. HDFC Bank issued 42 new equity shares for every 25 held by HDFC Ltd. shareholders. The initial years will be challenging for the merged entity, requiring approximately four to five years for full integration. The new entity can now underwrite larger ticket loans, including infrastructure loans, thereby boosting credit flow in the economy. This paper highlighted the reasons behind the merger of HDFC Bank and HDFC Ltd. and examined the impact of mergers on companies, as well as the benefits arising from them.

REFERENCES:

1. Chandok, S., & Chandok, S. (2022, April 6). Merger between HDFC, HDFC Bank: Benefits, challenges & market impact of the deal. *The Quint.* https://www.thequint.com/news/business/hdfc-bank-mergerbenefits-challenges-impact-market-financial-services
2. Cresida, T. C., & Chanchu, T. C. (2021). Merger of public sector banks in 2020—An overview. *Journal of Emerging Technologies and Innovative Research (JETIR), 8*(9). https://www.jetir.org/papers/JETIR2109324.pdf
3. Gandhi, V., Chhajer, P., & Mehta, V. (2018). Mergers and acquisitions in India: Strategic impact analysis for corporate restructuring. *Asian Journal of Research in Banking and Finance, 8*(3), 1. https://doi.org/10.5958/2249-7323.2018.00013.5
4. Gayawala, D., Lodhari, R., Desai, D., Parul Institute of Management and Research, Parul University, FMS, Parul University, & FMS, Parul University. (2023). Study on impact of merger and acquisition of HDFC Bank and HDFC Ltd. *International Journal of Advances in Engineering and Management (IJAEM), 5*(3), 179–184. https://doi.org/10.35629/5252-0503179184
5. Poddar, N. (2019). A study on mergers and acquisitions in India and their impact on operating efficiency of Indian acquiring companies. *Theoretical Economics Letters, 9*(4), 1040–1052. https://doi.org/10.4236/tel.2019.94067
6. Ranva, V. (2024, October 6). India's new banking giant: HDFC merges to become #4 (2024). *Investopedia Co. in India.* https://investopedia.co.in/hdfc-hdfcbank-merger-fourth-largest-bank
7. Sengar, N., Badhotiya, G. K., Dobriyal, R., & Singh, D. B. (2021). Study of post-merger effects on bank performance in India. *Materials Today Proceedings, 46,* 10766–10770. https://doi.org/10.1016/j.matpr.2021.01.671
8. Tomar, A. S., Talreja, P., Mishra, A., & Shrivastava, A. (2023). Measuring impact of HDFC Groups' strategic merger: An event study. https://doi.org/10.1109/ictbig59752.2023.10455982
9. Udhayaprakash. (2024, July 17). Financial behemoths HDFC Bank and HDFC Ltd. come together. *Value Research Online.*

https://www.valueresearchonline.com/stories/50671/financial-behemoths-hdfc-bank-and-hdfc-ltd-come-together/

10. Yadav, S., & Jang, J. (2021). Impact of merger on HDFC Bank's financial performance: A CAMEL analysis approach. *International Journal of Economics and Finance, 13*(8), 31. https://doi.org/10.5539/ijef.v13n8p31

PRODUCT DEVELOPMENT AND INNOVATION

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ABSTRACT

Product innovation is the process of creating a new product or improving an existing one to meet customers' needs in a novel way. There are three key types of innovation: sustaining innovation, in which a business consistently provides the highest quality products to its best customers. Product development and innovation are processes that involve creating or improving products to meet customer needs. Innovation product development is a product development methodology that borrows from digital product engineering processes and applies them to business innovation. The goal is to produce product innovations that meet user needs and improve products for real-world use. Often building upon the agile development methodology, innovation product development transforms new ideas into useful products. Companies that shift to an innovation product development method also shift company culture to one that supports continuous improvement and innovation. This change in focus, along with adequate development tools, can help teams rapidly build minimally viable innovative products. Accelerating the development cycle means new innovative products enter the market faster than through traditional incremental development methodologies while also reducing costs. The rapid development process allows companies to respond more quickly to market demands. The goal of product development innovation is to produce products that meet user needs and improve the user experience. It can involve changes to a product's design, materials, functionality, look, feel, or capacity. Innovation helps businesses stay relevant and drive growth. It can lead to better products, happier customers, and a stronger position in the market.

Keywords: *Product development, Product innovation, Product design, Capacity.*

INTRODUCTION

Product innovation runs the gamut from improving existing products to discovering entirely new ways of satisfying customers and stakeholders. From an internal perspective, product innovation depends on the knowledge, experience, capabilities, resources, and prevailing technologies of the organization. Innovation product development is the process of applying digital product engineering to a business's innovation goals, thereby transforming innovative ideas into reality. It entails all activities involved in turning a concept for new and better user experiences into real-world products.

ADVANTAGES OF NEW PRODUCT DEVELOPMENT

Opportunity to Create Innovative Products Innovation involves transforming an idea or invention into goods or services that create enough value for customers to want to buy. Creating unique products and services and bringing them to market before competitors can significantly benefit a company, often playing a critical role in its reputation and continued success. Understanding the process of product innovation and the reasons for using it can help develop professional capabilities valuable in any industry.

POTENTIAL FOR INCREASED REVENUE AND MARKET SHARE

Market share can be increased by differentiating products or services, expanding distribution channels, or acquiring competitors. Businesses can attract customers and gain market share by offering unique features, competitive pricing, or superior services. Expanding distribution channels can enhance a company's reach and accessibility, driving higher revenue and growth.

ABILITY TO MEET EVOLVING CUSTOMER NEEDS

Innovative and forward-thinking companies are harnessing the power of technologies such as cloud computing, mobile platforms, social media, and artificial intelligence. These advancements have paved the way for superior and instantaneous customer experiences. As a result, customers now expect this exceptional level of service from every business.

ENHANCED COMPETITIVE ADVANTAGE IN THE MARKET

Competitive advantage refers to a company's ability to produce goods or deliver services better than its competitors. It enables a company to achieve superior margins and generate value for both the company and its shareholders. A competitive advantage is something that cannot be easily replicated and is exclusive to a company or business. This value is created internally and is what sets the business apart from its competition.

OPPORTUNITY FOR BRAND EXPANSION AND GROWTH

Brand expansion refers to growing a company's presence by entering new markets or regions. This approach involves leveraging the existing brand's equity and reputation to reach new customer segments or geographical areas. Brand expansion allows a company to build on its established identity and customer loyalty to drive growth and increase market share.

A great example of successful brand expansion is Starbucks. Originally a single coffee shop in Seattle, Starbucks has expanded its brand globally, reaching new markets in diverse countries. This expansion has allowed Starbucks to grow its brand presence and customer base substantially, becoming a global coffeehouse leader.

PRODUCT INNOVATION STRATEGIES:

Product innovation refers to the creation and introduction of a product or service that is new to the market or a substantial and novel iteration of an existing product. It includes improvements in components and materials, incorporated software, technical specifications, and other functional characteristics such as user-friendliness. Product innovation is how brands like Apple and Tesla have achieved significant commercial success.

TYPES OF PRODUCT INNOVATION

NEW PRODUCT INNOVATION

Experts classify new products as either radical or disruptive because, if they achieve a successful adoption rate, they can become game changers and cause a market shift. However, radical and disruptive innovations are harder to execute, have a lower success rate, and present more risks. For these reasons, they are not common. The challenge is not just coming up with a new idea but also driving market adoption. Success requires a systematic, proven approach to taking ideas from conception to marketable products.

INCREMENTAL CHANGES TO EXISTING PRODUCTS

Incremental innovation aims to improve existing products. It is the most lucrative and successful type of product innovation because it enhances products that already enjoy a relatively successful market presence. It also meets consumer needs—for example, the evolution of computers into smartphones, laptops, tablets, and pcs.

DEVELOPMENT OF NEW PRODUCT FEATURES

Introducing new product features is the third type of product innovation. Developers and designers create new features to improve products and increase their adoption rate. The key is not to overwhelm consumers with excessive additional features that distract them from the product's original usability and utility.

TOOLS AND METHODOLOGY

Product innovation is the process of creating new or improved solutions that meet customer needs and generate value for businesses. However, product innovation is not a one-size-fits-all approach. Depending on goals, context, and resources, businesses need to select the right tools and methods to ideate, prototype, test, and launch their products.

UNDERSTAND YOUR INNOVATION CHALLENGE

Before selecting tools and methods for product innovation, it is essential to define and understand the innovation challenge. What problem are you trying to solve? Who are your target customers? What are their needs, pain points, and expectations? How does your solution fit into the market and competitive landscape? By answering these questions, businesses can clarify the scope, direction, and criteria of their product innovation projects. Tools such as problem statements, customer segmentation, value propositions, and market research can help frame the innovation challenge effectively.

CHOOSE YOUR INNOVATION APPROACH

Next, you need to choose your innovation approach based on the level of uncertainty and complexity of your challenge. Do you have a clear idea of what customers want and how to deliver it? Or do you need to explore and experiment with different possibilities and assumptions? Depending on your answer, you can adopt different innovation approaches, such as incremental, radical, or disruptive innovation. You can also use frameworks such as the innovation matrix or the innovation spectrum to map your innovation approach and align it with your strategy and vision.

SELECT YOUR INNOVATION METHODS

Once you have determined your innovation approach, you need to select the methods that will help you execute it. Innovation methods are specific techniques or processes that guide you through the different stages of product innovation, such as ideation, prototyping, testing, and launching. Some examples of innovation methods include brainstorming, design thinking, lean startup, agile, and scrum. You should choose the methods that align with your innovation challenge, approach, and goals, as well as your team's skills, culture, and resources. Tools such as the innovation toolbox or innovation method cards can help you compare and select the best methods for your product innovation project.

PICK YOUR INNOVATION TOOLS

Finally, you need to pick the tools that will support you in applying your innovation methods. Innovation tools are specific instruments or platforms that enable you to perform certain tasks or activities related to product innovation, such as generating ideas, creating prototypes, collecting feedback, or managing projects. Some examples of innovation tools include mind maps, sketching, surveys, landing pages, and project management software. You should select tools that are easy to use, compatible with your methods, and effective in achieving your desired outcomes. Tools such as the innovation tool finder can help you identify the most suitable options for your innovation project.

REVIEW OF LITERATURE:

Stage-based models explicitly state the individual stages of the NPD process, their order, the activities involved, and the linkages between the stages (Conway & Steward, 2008), thereby aiding understanding of the process and its management. The practical applicability of these models for managers and consultants has been a key factor in their popularity and dominance. The majority of stage-based models represent the process as a series of linear activities, with feedback loops between each activity or ‘stage.’ The key focus is on providing a series of steps designed to guide ideas toward successful products (Cooper, 2008; Cooper & Kleinschmidt, 1991). New products must pass through each stage to be commercialized or launched. To proceed and progress, a number of evaluation criteria must be fulfilled at each stage, allowing the product to pass through a ‘stage gate.’ Hence, the stages are commonly viewed as information-gathering activities, followed by go/kill decision gates (Cooper, 2008). This approach helps focus decision-making and ensures that evaluations are undertaken at critical points.

Process models provide a useful depiction of the key activities involved in NPD, effectively acting as a blueprint for organizations to follow and adapt as required (Oorschot et al., 2010). Their adoption and use have been linked to improved profitability and performance (Nijssen & Lieshout, 1995). For managers, these models assist in portfolio planning and risk management, aiding in the allocation of resources to the right projects at the right time (Oorschot et al., 2010; Cooper, 2008; Cooper et al., 2001). For organizations, their adoption can be beneficial, as in many cases, managers have little confidence in their ability to effectively manage NPD (O’Marah, 2004, as cited in Koudal & Coleman, 2005). Utilizing these models can help avoid the omission of critical activities from the process, which is not uncommon (Cooper & Kleinschmidt, 2000).

As early as 1976, Schelker (as cited in Nijssen & Lieshout, 1995) suggested that if all variations of models and methods were considered, over 600 could be identified. This figure has clearly increased due to the growth of NPD literature. Discussing and listing them all would not be feasible within the constraints of a single chapter. However, the following provides an overview of some of the most commonly accepted, relevant, and recent models, revealing differences in terms of the activities or stages identified and the number of these activities. In practice, the completeness of the process and the proficiency of the activities undertaken are both critical to success (Cooper & Kleinschmidt, 1986).

The following tables present the main stages depicted in selected models, enabling them to be compared. Tables 3.1 and 3.2 are adapted from Eveleen's (2010) and Francis' (2008) papers, respectively. Each provides a useful overview of some of the most influential NPD models spanning the past fifty years. The tables further illustrate the heterogeneity of these models. Table 3.2 attempts to group the activities into three broad types (left column), aiding their comparison: prior to development (product independent), focused on the product's development, and post-development evaluation.

As you progress with your product innovation project, you should review and adjust your selection of tools and methods based on your learnings, feedback, and results. You may find that some tools and methods work better than others or that you need to switch or combine them to adapt to changing conditions or opportunities. You should also evaluate the impact and value of your product innovation project and measure your performance and progress. You can use tools such as the innovation audit, the innovation dashboard, or the innovation scorecard to review and improve your product innovation process and outcomes.

TRENDS AND FUTURE DIRECTIONS

THE PRODUCT DEVELOPMENT TREND

The main product development trend for 2024 is embracing hybrid approaches. More product development teams are adopting agile methodologies due to the flexibility they bring to the process and the responsiveness they provide to market fluctuations or changing customer requirements. However, agile methodologies often lack a structured framework that provides control and visibility. This hybrid approach is particularly valuable in projects where complexity and risks require a delicate balance between flexibility and control. Imagine a software development project where customer requirements may evolve during the process. Agile Phase Gate would allow the incorporation of these changes without compromising the structure or integrity of the project.

USER-CENTRIC MINDSET

The second major product development trend is adopting a user-centric mindset. This goes beyond simply collecting user feedback through satisfaction surveys or social media. It is a philosophy that reshapes the way organizations conceive, design, and deliver products. Users determine the success or failure of a product or service. It is no longer just about promoting initiatives that satisfy their needs but about deeply understanding their experiences, emotions, and expectations.

THE POWER OF DATA AND BUSINESS INTELLIGENCE (BI)

Data analytics is transforming the way organizations interpret, apply, and capitalize on information generated throughout the product lifecycle. It serves as a strategic resource that drives informed decision-making. In this context, Business Intelligence (BI) acts as a catalyst, transforming seemingly disparate data into coherent and actionable insights. The applications of data intelligence in product development are vast, allowing organizations to make data-driven decisions, enhance efficiency, and drive innovation.

INNOVATION MANAGEMENT

Innovation management involves overseeing an organization's innovation process, from the initial ideation stage to its successful implementation. It encompasses the decisions, activities, and practices involved in devising and executing an innovation strategy.

According to Gartner, innovation management is a business discipline that aims to foster a sustainable innovation process or culture within an organization. Often, these innovation management initiatives utilize a disruptive approach to drive business transformation. With digital transformation, organizations face the need to innovate more rapidly and effectively. Innovation drives business growth and helps organizations stay ahead of their competitors. Proper innovation management helps generate new business models and create new products, services, and technologies designed for evolving markets. Additionally, it enhances customer satisfaction and boosts employee engagement.

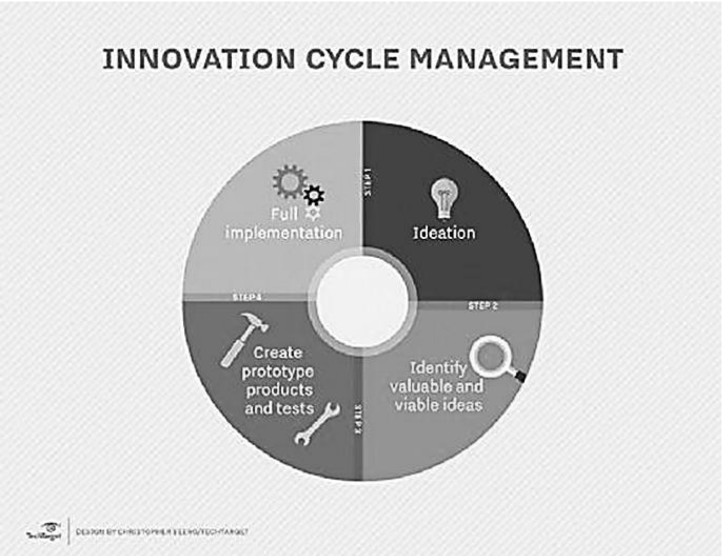
INNOVATION MANAGEMENT METHODS

Broadly speaking, innovation can be categorized as incremental, breakthrough, or disruptive.

- Incremental: In an era where businesses must constantly reinvent themselves, incremental innovation helps them thrive by continuously improving current products, services, processes, or methods.
- Breakthrough: Breakthrough innovation refers to technological advancements that can significantly enhance a product or service within an existing category, giving it a competitive edge.
- Disruptive: Disruptive innovations are ideas capable of radically changing market behavior once implemented.

ACHIEVING INNOVATION MANAGEMENT SUCCESS

For the innovation management process to be successful, it is essential for companies to foster an innovation culture and make employees feel valued. This encourages employees to generate quality ideas in return. Organizations can leverage collaborative technology, such as social networking, to gather feedback, helping generate a steady stream of ideas from stakeholders both within and outside the company.



CHALLENGES OF PRODUCT INNOVATION

A rigid and traditional management model can be one of the biggest challenges to innovation and creativity. Even if a company is willing to embrace and invest in new ideas, its efforts may be ineffective if the majority of the organization does not support change. Product development is a complex and challenging process that requires careful planning, management, and execution.

There are two types of innovation challenges: internal and external. Often, it is advisable to start with an internal challenge involving the company's own employees. There are several good reasons for this: communication is simpler and faster. As those responsible for managing innovation, we are at the forefront of this journey.

We are the trailblazers leading our organizations toward new frontiers, pushing boundaries, and breaking new ground. It is an exciting role, but it also comes with its fair share of complexities. Whether it is aligning innovation with business strategy, building a culture that embraces change, or addressing limited resources and feasibility issues, we have all faced these challenges. Additionally, there is the task of leading and measuring innovation efforts. Sound familiar?

However, these challenges are not insurmountable. In fact, they present opportunities for learning and growth, allowing us to refine our strategies and improve our skills. We will explore four main categories of challenges in managing innovation: Strategy, Culture and Execution Challenges; Resource and Capacity Challenges; Process and Feasibility Challenges; and Leadership Challenges. We will dive deep into each category, discussing what they involve and how they might manifest in your organization.

CONCLUSION

A well-defined product development strategy is vital for businesses seeking sustainable growth and competitiveness. By aligning market research, innovation, and customer feedback, companies can create products that resonate with their target audience and outperform competitors.

REFERENCES

1. Abdul, A. A., Babalola, F. I., Daraojimba, C., Oriji, O., & Abitoye, O. (2023). A review of how technology is helping to modernize accounting instruction for Nigerian students. *International Journal of Management & Entrepreneurship Research, 5*(12), 892–906.
2. Abitoye, O., Shonibare, M. A., Daraojimba, C., Onunka, T., & Oriji, O. (2023). An analysis of effective practical teaching strategies for improving financial literacy in Nigeria. *International Journal of Management & Entrepreneurship Research, 5*(12), 879–891.
3. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, A. E., & Adegbola, M. D. (2024). Advanced financial modeling methods for inventory cost reduction: An analysis of tactics and production success. *Journal of Finance & Accounting Research, 6*(6), 801–824.

4. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, A. E., & Adegbola, M. D. (2024). Increasing the effectiveness of product development through cross-functional team leadership: Advice and tactics from professionals in the field. *International Journal of Management & Entrepreneurship Research, 6*(5), 1733–1753.
5. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, M. D., & Adegbola, A. E. (2024). A theoretical overview and implications of quantum computing and financial risk management. *Journal of Computer Science and IT Research, 5*(6), 1210–1220.
6. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, M. D., & Adegbola, A. E. (2024). A review and novel methods for utilizing financial incentives to promote diversity. *International Journal of Applied Research in Social Sciences, 6*(5), 1037–1047; International Journal of Frontline Research in Science and Technology, 3*(2), 001–018.
7. Adegoke, T. I., Akinrinola, O., & Ofodile, O. C. (2024). A study of the research on mortgage accessibility for underserved communities to assess the fairness of credit scoring methods. *GSC Advanced Research and Reviews, 18*(3), 189–199.
8. Adegoke, T. I., Akinrinola, O., & Ofodile, O. C. (2024). A driver for resolving the injustices experienced by underprivileged groups in the United States: Data analytics in mortgage and finance. *International Journal of Science and Research Archive, 11*(2), 338–347.

Risk Tolerance and Investment Preference -Insights for Personalised Investment Strategy

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ABSTRACT

This study investigates the relationship between risk tolerance and investment preferences, focusing on how varying levels of risk appetite influence product selection across different age groups, income levels, and financial goals. The research aims to understand how individual financial conditions and shifting life stages affect investment behaviors. By analyzing correlations between risk tolerance and investment choices, the study provides insights into optimal asset allocation strategies for both younger investors seeking growth and those approaching retirement focused on capital preservation.

To provide actionable insights, the study introduces a balanced budgeting strategy for working individuals, advising them to allocate a portion of their income to necessities, discretionary expenses, and savings and investments. Within the savings and investments allocation, it further suggests a diversified approach, distributing funds across high-growth opportunities, stable income-generating assets, and liquid investments. The findings emphasize the importance of aligning investment decisions with an individual's risk profile to enhance financial outcomes. Furthermore, the research offers actionable recommendations for personalized financial planning, taking into account risk appetite, life stages, and financial obligations.

INTRODUCTION

Making wise investment selections has become increasingly challenging due to the growing variety of investment products and the complexity of financial markets. Despite the abundance of financial information available, there remains a significant disconnect between theoretical investment knowledge and practical, implementable strategies that consider an individual's age, income level, and risk tolerance.

This study focuses on two primary goals. First, it aims to provide a data-driven foundation for investment recommendations by establishing empirical correlations between investment preferences and demographic characteristics (such as age and income levels). Second, it seeks to develop a modified 50-30-20 budgeting framework that links investment allocation with income management. The study emphasizes the investment component (20%), which is further divided into allocations for high-growth investments (60%), fixed income (25%), and liquidity (15%).

The results are intended to help working individuals balance their immediate financial needs with long-term investment objectives, provide a structured approach to investment decision-making, and assist those nearing retirement in realigning their investment plans for financial stability.

OBJECTIVES

• To analyze the correlation between risk tolerance levels and investment preferences across different age groups and income brackets.

• To provide actionable recommendations for personalized financial planning that considers individuals' risk appetite, life stages, and financial goals.

LITERATURE REVIEW

In his article, "Financial Planning: A Research Agenda for the Next Decade," Vicki L. Bogan explores the future direction of financial planning research. Bogan emphasizes the need for further research to support the field's growth and address evolving challenges for practitioners and policymakers. The study highlights emerging themes such as technological integration, behavioral finance, and sustainable investing, using expert surveys and a combination of research approaches.

Chandra Shekhar, in "Indian Investor’s Behavior on Various Investment Opportunities," examines the investment preferences and behaviors of Indian investors, focusing on their knowledge of available financial products and services. The study underscores the importance of understanding investor behavior in India's evolving economic landscape, where businesses must make complex decisions. It also explores how employees, partners, and investors contribute to business growth, innovation, and resilience. The study's conclusions highlight the significance of investor sentiment in shaping management responses and ensuring long-term business success in a dynamic market.

N. Dixit's "A Review of Financial Literacy in India" emphasizes the role of financial literacy in reducing economic inequality and poverty. Financial literacy enables individuals to save and make informed investment decisions, both of which are crucial for financial security. The report highlights significant initiatives by the Indian government and regulatory agencies to enhance financial literacy through the "5C strategy," which focuses on Content, Capacity, Community, Communication, and Collaboration. Despite India's relatively low financial literacy rates, these organized efforts are expected to improve financial awareness, foster financially resilient communities, and contribute to economic advancement.

RESEARCH METHODOLOGY

This study utilizes secondary data from various academic journals and online sources. Correlation analysis was employed to identify the relationship between risk tolerance levels and investment preferences.

DATA ANALYSIS

Investment Preference Among Varies Age Groups
(In years)

Investment Opportunities	**<20**	**20-30**	**31-40**	**41-60**	**>60**
Equity/Mutual Funds	25	24	27	28	15
Bank & Corporate FD's	18	18	17	16	20
Insurance	20	24	22	21	14
Gold	9	15	15	12	17
Real Estate	10	12	14	18	13
PPF	3	5	7	7	8
Others	2	4	2	4	4

Given their higher risk tolerance, younger investors (under 20) and middle-aged investors (41–60) prefer equity and mutual funds, according to the table displaying age-based investment preferences. As people age, particularly those over 60, bank and corporate fixed deposits (FDs) and the Public Provident Fund (PPF) become more popular, indicating a shift toward safer investments. While insurance peaks between the ages of 20 and 30, suggesting early financial planning, gold and real estate investments increase consistently with age, making them attractive to individuals seeking long-term, stable investments. Other investment choices reflect specialized financial preferences and remain relatively consistent across age groups, with slight variations.

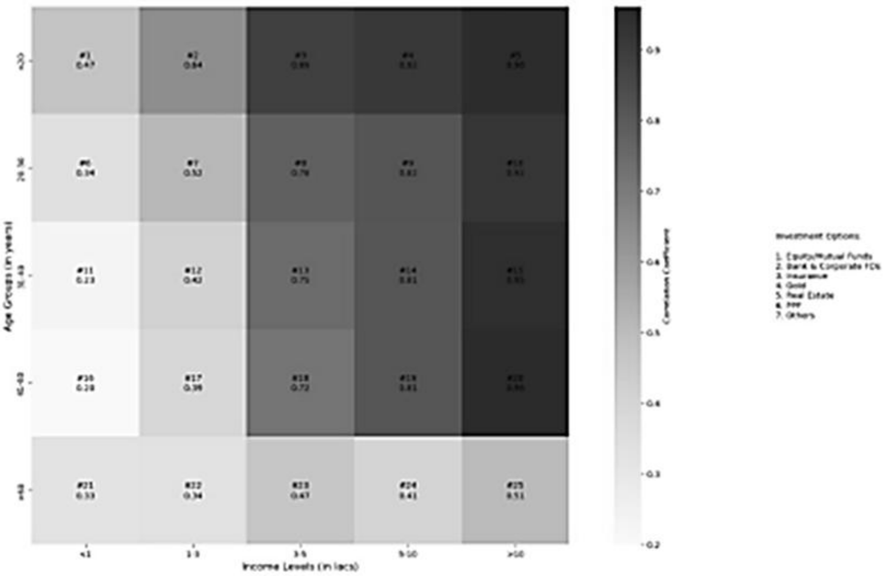
Investment Preference Among Varies Income Levels *(In lacs)*

Investment Opportunities	**<1**	**1-3**	**3-5**	**5-10**	**>10**
Equity/Mutual Funds	16	19	25	27	29
Bank & Corporate FD's	29	24	21	18	14
Insurance	11	15	19	20	22
Gold	3	4	5	8	9
Real Estate	1	3	5	9	1
PPF	1	4	7	9	6
Others	16	14	8	10	4

Investment preferences across income levels are presented in the table. Equity and mutual funds become increasingly popular as income rises, peaking at 29% among individuals earning over 10 lakhs, indicating a greater risk tolerance at higher income levels. Due to their preference for steady returns, bank and corporate fixed deposits (FDs) are most favored among lower-income groups (less than one lakh), with a peak of 29%. Interest in insurance gradually increases with income, rising from 11% among lower-income individuals to 22% among higher-income earners.

Higher income levels also drive greater demand for gold and real estate, particularly in the 5–10 lakh bracket, suggesting a preference for tangible assets. Middle-class individuals are more likely to favor the Public Provident Fund (PPF), while other investment options are more varied and exhibit a declining trend with increasing wealth.

CORRELATION ANALYSIS



UNDERSTANDING FROM THE CORRELATION ANALYSIS

• **Strong Positive Correlation in Higher Income and Younger Age Bracket**

The matrix reveals a strong correlation (values near 1) between younger age groups (<20 and 20–30) and higher income levels (5–10 lacs, >10 lacs). This suggests that individuals in these age groups may favor riskier or growth-oriented investments, such as real estate or equity/mutual funds. It implies that younger and wealthier individuals have a greater tolerance for risk.

• **Moderate to Weak Correlation in Middle Age and Lower Income Group**

Correlation values are moderate for individuals in the 31–40 and 41–60 age groups with mid-range income levels (1–3 lacs, 3–5 lacs), suggesting more cautious or balanced investment preferences, such as insurance or fixed deposits (FDs). These age and income brackets typically exhibit lower risk tolerance and favor more stable investment outcomes.

• **Low Correlation Among Older Age Groups with Lower Income** For individuals over 60 with lower income levels (<1 lac, 1–3 lacs), the correlation declines considerably, indicating a preference for safe investments like PPF or insurance that prioritize security over high returns. This aligns with the tendency of older individuals with lower incomes to have a lower risk tolerance.

Age Based Risk Tolerance

Age Group	**Risk Level**	**Primary Investment Preferences**	**Risk Characteristics**
<20 years	High	-Equity/Mutual Funds (25%)	-Highest risk appetite
		- Insurance (20%)	-Long investment horizon
		-Bank FDs (18%)	- Aggressive growth focus
20-30 years	High-Moderate	- Equity/Mutual Funds (24%)	- Strong risk appetite
		- Insurance (24%)	-Growth-oriented
		- Gold (15%)	-Some diversification
31-40 years	Moderate	-Equity/Mutual Funds (27%)	-Balanced approach
		- Insurance (22%)	-Portfolio diversification
		- Real Estate (14%)	- Mix of growth and safety
41-60 years	Moderate-Low	- Equity/Mutual Funds (28%)	Conservative growth
		- Real Estate (18%)	-Wealth preservation
		- Insurance (21%)	-Increased stability focus
>60 years	Low	-Bank FDs (20%)	-Capital preservation
		- Gold (17%)	-Income generation
		- Equity/Mutual Funds (15%)	- Lowest risk appetite

The differences in risk tolerance and investment preferences among age groups are presented in this table. Due to their long investment horizon and aggressive growth focus, individuals under the age of 20 exhibit a high risk appetite and prefer growth-oriented assets such as insurance and equity/mutual funds. Risk tolerance remains high but slightly lower in the 20–30 age bracket, with a continued interest in equity/mutual funds and increased diversification through gold.

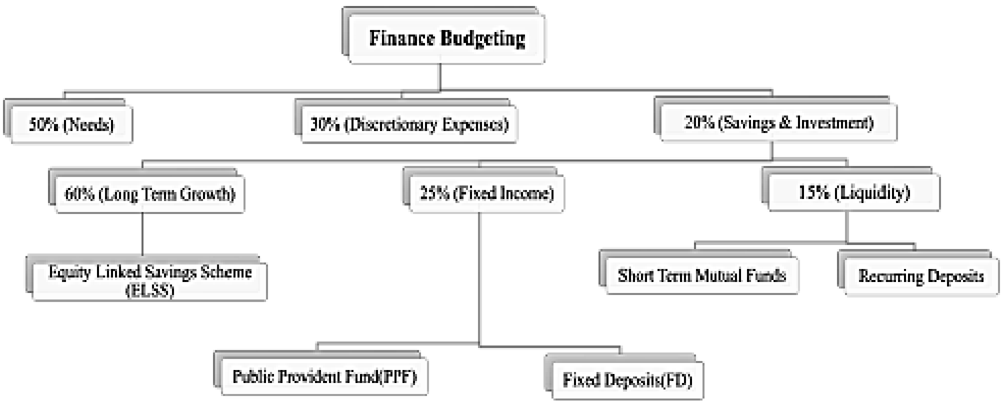
A moderate level of risk emerges around the ages of 31 to 40, with a well-rounded strategy that incorporates portfolio diversification through real estate and insurance, balancing growth and stability. Individuals between the ages of 41 and 60 adopt a moderate to low level of risk, emphasizing wealth preservation through prudent investments like real estate and maintaining financial security through insurance. Those over 60 have a low risk appetite, prioritizing income generation through gold and capital preservation through bank fixed deposits (FDs), reflecting a shift in their investment strategy towards stability.

INCOME BASED RISK TOLERANCE

Income Level (lacs)	**Risk Level**	**Primary Investment Preferences**	**Risk Characteristics**
<1 lac	Low	- Bank FDs (29%)	- Safety first approach
		- Others (16%)	- Limited risk capacity
		- Equity/Mutual Funds (16%)	- Focus on liquidity
1-3 lacs	Low-Moderate	- Bank FDs (24%)	- Conservative approach
		- Equity/Mutual Funds (19%)	- Building safety net
		- Insurance (15%)	- Basic diversification
3-5 lacs	Moderate	- Equity/Mutual Funds (25%)	- Balanced risk approach
		- Bank FDs (21%)	- Growing risk capacity
		- Insurance (19%)	- Better diversification
5-10 lacs	Moderate-High	- Equity/Mutual Funds (27%)	- Active risk taking
		- Insurance (20%)	- Strategic allocation
>10 lacs	High	- Bank FDs (18%)	- Strong diversification
		- Equity/Mutual Funds (29%)	- Highest risk capacity
		- Insurance (22%)	- Aggressive growth
		- Bank FDs (14%)	- Maximum diversification

This table highlights the primary investment choices and associated risk characteristics across different income categories, demonstrating the relationship between income levels and risk tolerance. Individuals with lower incomes (less than one lakh) tend to be more cautious and prefer safer investments, such as bank fixed deposits (FDs), which emphasize liquidity and have a low risk tolerance. As income rises to the 1–3 lakh range, there is a cautious shift toward equity/mutual funds and insurance, aiming to create a safety net with moderate diversification. Investors with moderate incomes (3–5 lakhs) take a balanced approach, diversifying with insurance as risk tolerance increases and expanding their exposure to equity and mutual funds. Risk tolerance further increases for individuals earning between 5 and 10 lakhs, reflected in more aggressive risk-taking and a calculated allocation to growth assets. The highest risk tolerance is observed among those earning over 10 lakhs, who make significant investments in insurance and equity/mutual funds, aiming to maximize diversification and achieve rapid growth.

Personalized Financial Planning Insight



The financial planning structure in the image provides a comprehensive and well-balanced framework for efficient resource management through a structured 50-30-20 methodology. This model offers individuals a strong foundation for strategically allocating their finances while considering both short-term and long-term financial goals.

A 50% allocation to essential needs ensures that fundamental expenses, such as housing, food, utilities, and other necessities, are met. By prioritizing these essential requirements, this approach promotes financial stability and helps individuals maintain their standard of living.

Allocating 30% to discretionary expenses allows individuals the flexibility to support personal interests, hobbies, and lifestyle choices. This section strikes a balance between financial responsibility and the freedom to pursue personal fulfillment and an improved quality of life.

The remaining 20% dedicated to investments and savings reflects a proactive, forward-thinking financial strategy, emphasizing long-term financial security and wealth accumulation.

To create a comprehensive investment strategy, this section is further divided into three categories:

• **Long-Term Growth (60%):** This significant allocation to long-term assets, such as Equity

Linked Savings Schemes (ELSS), reflects a commitment to wealth accumulation and capital appreciation. By leveraging the growth potential of the equity market, individuals can take advantage of compounding to achieve key long-term financial goals, including retirement planning and major life events.

• **Fixed Income (25%):** Investing in fixed-income products, such as fixed deposits (FDs) and the Public Provident Fund (PPF), provides stability and security to the portfolio. These investments balance the portfolio's risk profile by offering steady returns and protection against market volatility while meeting capital preservation needs.

• **Liquidity (15%):** Keeping a portion of funds in short-term mutual funds and recurring deposits ensures quick access to money in case of emergencies or unexpected expenses. This allocation provides the flexibility and financial cushion needed to handle unforeseen costs without disrupting the long-term financial plan.

EQUITY LINKED SAVINGS SCHEME (ELSS)

The Equity Linked Savings Scheme (ELSS) is an exceptional mutual fund option that offers investors a strong combination of tax benefits and long-term growth potential. As the only mutual fund category eligible for tax deductions under Section 80C of the Indian Income Tax Act, ELSS has gained popularity among individuals seeking to minimize tax liabilities while building significant wealth over time.

One of the primary advantages of ELSS funds is the annual tax deduction of up to ₹1.5 lakhs, which can result in tax savings of up to ₹46,800 per year. This makes ELSS an attractive option for investors looking to optimize tax benefits while benefiting from market-linked returns. ELSS funds are particularly suitable for investors with a long-term investment horizon of 15–20 years. By capitalizing on the growth potential of equities and the power of compounding, individuals can accumulate a substantial corpus. Furthermore, the tax-efficient nature of ELSS funds allows investors to retain a larger portion of their returns, further enhancing wealth accumulation.

PUBLIC PROVIDENT FUND (PPF)

The Public Provident Fund (PPF) is a secure, government-backed savings scheme ideal for long-term financial planning. Designed for conservative investors, PPF offers steady capital growth with a 15-year tenure, which can be extended in 5-year increments. The scheme promotes systematic savings, allowing contributions ranging from ₹500 to ₹1.5 lakh per year, with tax-free interest and maturity benefits under Section 80C.

PPF also provides partial withdrawal flexibility starting in the fifth year, ensuring liquidity for financial emergencies. With its insulation from market volatility, PPF guarantees capital protection, making it a reliable choice for achieving financial goals such as retirement planning. The scheme's 15-year lock-in period and compounding effect make it an excellent tool for long-term wealth creation. PPF's stable, tax-free returns ensure that investors retain a significant portion of their earnings. It is an ideal option for conservative investors prioritizing capital preservation and long-term goals like retirement or education. Additionally, the ability to extend a PPF account in 5-year increments adds flexibility to adapt to changing financial needs.

FIXED DEPOSITS (FD)

Fixed deposits (FDs) offer flexible investment tenures ranging from one day to several years, with interest compounded monthly, quarterly, or annually to enhance returns. While partial or full withdrawals are possible, penalties may apply. Senior citizens benefit from slightly higher interest rates. Tax-saving FDs also provide deductions under Section 80C, while investors seeking greater financial flexibility can opt to borrow against their FDs.

FDs are an attractive option for long-term financial planning due to their steady and predictable returns, which grow through compounding. They are particularly suitable for conservative portfolios focused on capital preservation, as they lock in funds for a fixed period, ensuring a stable income stream. Long-term FDs also offer tax advantages and borrowing options, enhancing financial flexibility. Higher interest rates for senior citizens further increase their appeal as a dependable fixed-income investment.

SHORT-TERM MUTUAL FUNDS

Short-term mutual funds invest in certificates of deposit, money market instruments, and short-term bonds, typically with durations ranging from six months to three years. They are well-suited for cautious investors with a moderate risk tolerance, offering liquidity, capital preservation, and modest returns. These funds remain relatively stable in volatile markets due to their lower sensitivity to interest rate fluctuations.

Short-term mutual funds are an attractive option for investors who require quick access to their money. Focused on short-term bonds and money market instruments, these funds provide high liquidity, allowing investors to withdraw funds as needed. The short investment duration ensures that assets can be easily converted into cash, making them an ideal choice for individuals seeking a balance between capital protection and financial flexibility to manage unexpected expenses.

RECURRING DEPOSITS (RD)

A Recurring Deposit (RD) account is an investment tool that allows customers to accumulate savings over a predetermined period through regular monthly payments. Investors can select the deposit tenure and monthly contribution amount based on their convenience. RD programs are commonly chosen by individuals looking to save systematically and build a financial cushion, as they offer more flexibility than fixed deposit schemes.

However, RD accounts offer less flexibility compared to more liquid investment options. While they facilitate a consistent accumulation of funds through monthly contributions, early withdrawals before the lock-in period typically incur penalties, and partial withdrawals are not permitted.

Although RDs provide some liquidity through overdraft or loan facilities against the RD balance, accessing funds in emergencies may come with additional fees or conditions. In general, RDs are less liquid than savings accounts or short-term investments but more liquid than fixed deposits.

RETIREMENT PLANNING BENEFITS

This financial planning framework prioritizes flexibility, stability, and financial security, making it highly beneficial for individuals approaching retirement. The 50% allocation to essential needs ensures that retirees can cover basic living expenses, allowing them to maintain their standard of living without financial stress. The 30% allocated to discretionary expenses enables them to enjoy their post-retirement years, pursue hobbies, and live comfortably without financial concerns.

By balancing short-term liquidity and long-term wealth creation, the 20% allocated to investments helps retirees achieve their financial objectives. Fixed-income options like PPF and FDs provide stable, risk-free returns while preserving capital, whereas long-term investments such as ELSS contribute to building a retirement corpus. The 15% allocated to recurring deposits and short-term mutual funds ensures liquidity, allowing retirees to access funds for unforeseen expenses or emergencies without compromising long-term financial security. This diversified approach provides stability and flexibility, enabling retirees to navigate retirement with confidence.

CONCLUSION

This analysis highlights the intricate relationship between risk tolerance and investment preferences, which are influenced by demographic factors such as age, income, and financial goals. Younger investors with a higher risk appetite tend to favor growth-oriented assets such as stocks, whereas older or lower-income investors prefer secure options like fixed deposits and government-backed schemes.

A customized 50-30-20 budgeting approach, which categorizes finances into investments, discretionary spending, and essential needs, offers a practical framework for aligning financial plans with individual risk profiles and life stages. Ultimately, this study underscores the importance of personalized financial planning and diversified asset allocation in achieving financial resilience and long-term wealth creation.

REFERENCES

1. Bogan, V. L., Geczy, C. C., & Grable, J. E. (2020). Financial planning: A research agenda for the next decade. *Financial Planning Review, 3*(2), e1094.
2. Dixit, N., & Dixit, G. (2021). A review of financial literacy in India. *Vidybharati International Interdisciplinary Research Journal, 12*(1), 1.
3. Hallman, G. V., & Rosenbloom, J. (2003). *Personal financial planning.* Retrieved from https://ijrar.org/papers/IJRAR1905037.pdf

FINANCIAL TECHNOLOGY TRENDS: INFLUENCING THE FUTURE OF BANKING IN BRICS ECONOMIES

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ABSTRACT

This paper explores key fintech trends shaping the future of financial services within the expanded BRICS Plus nations: Brazil, Russia, India, China, South Africa, Ethiopia, Egypt, Iran, and the UAE. Together, these countries represent 57% of the global population (4.53 billion) and account for 29.2% of global GDP ($29.25 trillion). Key technologies such as Decentralized Finance (DeFi), Blockchain, AI-driven personalization, Embedded Finance, Regulatory Technology (RegTech), and Banking-as-a-Service (BaaS) are driving financial inclusion, enhancing transaction efficiency, and strengthening economic resilience.

A significant development is BRICS Pay, a unified payment system that facilitates cross-border transactions among BRICS Plus members, reducing reliance on Western financial systems and promoting economic independence. This paper synthesizes insights from financial reports, market studies, and academic literature to highlight how these innovations are shaping financial autonomy and strengthening the global influence of BRICS Plus economies.

Keywords: *Fintech, Decentralized Finance (DeFi), Blockchain, Artificial Intelligence (AI), Machine Learning (ML), Banking-as-a-Service (BaaS), Regulatory Technology (RegTech), BRICS, Digital Currency, Financial Inclusion.*

1. INTRODUCTION

The emergence of financial technology (fintech) within the BRICS economies signifies transformative changes in financial services. Technological advancements, including Decentralized Finance (DeFi), blockchain, artificial intelligence-driven personalization, Embedded Finance, Regulatory Technology (RegTech), and Banking-as-a-Service (BaaS), are fundamentally reshaping the financial landscape. These innovations facilitate financial inclusion and lower transaction costs, thereby enhancing accessibility for underserved populations.

To address challenges stemming from global financial systems, the BRICS nations are promoting collaboration through initiatives such as BRICS Pay, a unified digital payment platform designed to streamline cross-border transactions and reduce reliance on Western financial structures. This initiative also aims to bolster regional economic resilience. Each BRICS nation possesses unique fintech strengths; for instance, India is recognized for its extensive adoption of digital payment systems, China leads in blockchain technology, and Brazil and South Africa focus on developing balanced regulatory frameworks.

This paper analyzes current fintech trends within BRICS, exploring their implications for the banking sector, the impact of governmental regulations, and prospective future developments.

By synthesizing secondary data from both industry and academic sources, this study aims to underscore the role of fintech in fostering an inclusive and resilient global financial system.

OBJECTIVE OF THE STUDY

The objectives of the study in the research paper titled Financial Technology Trends: Influencing the Future of Banking in BRICS Economies can be summarized as follows:

1. Analyze the impact of technologies such as Decentralized Finance (DeFi), blockchain, AI-driven personalization, Embedded Finance, and Banking-as-a-Service (BaaS) on financial services within BRICS Plus nations.
2. Investigate the implementation and significance of BRICS Pay, a unified cross-border payment system, in reducing reliance on Western financial systems and fostering economic independence.
3. Explore how financial technology advancements contribute to regional economic resilience and autonomy, particularly in the context of global financial challenges.

Table 1.1: BRICS Population, Digital Banking Penetration, and Internet Usage Rates

Country	Population (millions)	Digital Banking Penetration (%)	Internet Usage Rate (%)
Brazil	216.4	~60%	85%
Russia	143.8	~65%	85%
India	1,428.6	~50%	48%
China	1,410.7	~75%	72%
South Africa	60.4	~45%	70%
Ethiopia	126.5	~15%	25%
Egypt	112.7	~35%	59%
Iran	89.2	~45%	68%
UAE	9.5	~85%	100%

This data illustrates the considerable market for digital financial solutions across BRICS economies, laying the groundwork for innovations like BRICS Pay.

2. LITERATURE REVIEW

The emergence of financial technology (fintech) has transformed the global financial landscape, particularly in emerging markets. The BRICS Plus nations—Brazil, Russia, India, China, South Africa, Ethiopia, Egypt, Iran, Saudi Arabia, and the UAE—are increasingly adopting fintech innovations, which have significant implications for their economies.

Enhancing Financial Inclusion

Fintech plays a crucial role in improving financial inclusion. Karpuzoglu and Ergun (2022) highlight that mobile banking and digital lending platforms enable previously underserved populations to access financial services. Additionally, decentralized finance (DeFi) provides alternatives to traditional banking, further promoting inclusion (Zhang & Wang, 2023).

Transaction Efficiency through Blockchain

Blockchain technology enhances transaction efficiency and security. Accenture (2022) notes that it can streamline financial processes, reducing costs and transaction times. In the context of BRICS, initiatives like BRICS Pay aim to establish a unified digital payment system that facilitates cross-border transactions and decreases reliance on Western financial networks, thereby fostering economic independence (Deloitte, 2023).

AI-Driven Personalization

Artificial intelligence (AI) is transforming customer experiences in finance. Lee and Chen (2022) discuss how AI-driven analytics personalize financial products, improving customer satisfaction. As BRICS countries adopt AI technologies, they can enhance service delivery in banking, leading to better customer engagement.

Integration of Embedded Finance

Embedded finance, where financial services are integrated into non-financial platforms, is a growing trend. McKinsey (2023) emphasizes that this integration simplifies user experiences and expands market access. In BRICS, adopting embedded finance can encourage innovation and strengthen economic integration among member states.

Regulatory Challenges

The rapid evolution of fintech necessitates effective regulatory frameworks. EY (2022) underscores the importance of Regulatory Technology (RegTech) to protect consumers while encouraging innovation. Collaborative efforts among BRICS nations to develop harmonized regulations will be essential for fostering fintech growth and ensuring regional stability.

3. RESEARCH METHODOLOGY

This study employs a qualitative research methodology, utilizing secondary data to analyze key fintech trends projected for 2025 within the expanded BRICS Plus nations: Brazil, Russia, India, China, South Africa, Ethiopia, Egypt, Iran, Saudi Arabia, and the UAE.

Data Collection

Sources: The research draws from:

- Financial Reports: Industry insights from reputable financial institutions and consultancy firms.
- Market Studies: Reports highlighting fintech adoption and market trends in the BRICS Plus nations.
- Academic Literature: Scholarly articles providing theoretical frameworks and context regarding fintech developments.

Selection Criteria: Data sources were selected based on credibility, relevance, and publication within the last five years to ensure current insights.

Data Analysis

The analysis focuses on identifying trends related to:

- Fintech Innovations: Examining the effects of DeFi, blockchain, AI-driven personalization, Embedded Finance, and Banking-as-a-Service (BaaS) on financial inclusion and transaction efficiency.

- BRICS Pay Initiative: Analyzing this collaborative effort to establish a unified payment system among BRICS Plus nations and its implications for economic independence.
- Synthesis of Findings: Integrating insights from various sources to construct a comprehensive understanding of the fintech landscape.

Limitations

This study acknowledges limitations such as potential inconsistencies in data availability across countries and the fast-paced nature of fintech, which may affect the relevance of some information.

The methodology outlined aims to provide a nuanced understanding of fintech trends in the BRICS Plus nations by leveraging diverse secondary data sources to inform analysis and conclusions.

4. ANALYSIS AND DISCUSSION

4.1 FINTECH TRENDS IN BRICS ECONOMIES

The financial technology landscape within the BRICS Plus nations—Brazil, Russia, India, China, South Africa, Ethiopia, Egypt, Iran, and the UAE—demonstrates a dynamic shift towards innovative solutions that enhance financial inclusion, efficiency, and security. This section analyzes key fintech trends, emphasizing the role of Decentralized Finance (DeFi), blockchain technology, AI-driven personalization, embedded finance, Regulatory Technology (Reg-Tech), and Banking-as-a-Service (BaaS), culminating in the implementation of BRICS Pay as a unified cross-border payment system.

4.1.1 DECENTRALIZED FINANCE (DEFI)

Decentralized Finance (DeFi) is revolutionizing financial services by providing accessible options without relying on traditional banking infrastructure. Countries like India, Russia, and China have witnessed significant adoption of DeFi platforms, driven by a demand for alternative investment and credit solutions. The increasing transaction volumes in these nations illustrate the sector's growth.

4.1.2 AI-DRIVEN PERSONALIZATION

Artificial intelligence (AI) enhances user experiences by enabling BRICS banks and fintech firms to tailor services to a diverse customer base. AI also aids in fraud detection, which is critical for the success of initiatives like BRICS Pay, improving the security and accessibility of cross-border payments. For instance, India's State Bank of India (SBI) employs AI to recommend financial products, while digital banks in China utilize AI for risk management and credit scoring.

4.1.3 EMBEDDED FINANCE

Embedded finance integrates banking services directly into e-commerce and telecom platforms, facilitating seamless cross-border transactions. By embedding BRICS Pay into commonly used digital platforms, BRICS economies can make cross-border payments as straightforward as domestic transactions, thereby reducing barriers to financial inclusion.

4.1.4 REGULATORY TECHNOLOGY (REG-TECH)

Reg-Tech tools are essential for addressing compliance challenges, particularly as fintech adoption accelerates across the BRICS Plus nations. These solutions ensure that BRICS Pay operates securely across borders, efficiently handling Anti-Money Laundering (AML) and Know Your Customer (KYC) requirements.

4.1.5 BLOCKCHAIN TECHNOLOGY

Blockchain technology plays a crucial role in enhancing the transparency, security, and efficiency of financial transactions. For BRICS Pay, blockchain can streamline cross-border payments, significantly reduce transaction fees, and enhance transparency. Notably, China is testing its digital Yuan, while Russia is exploring a blockchain-based digital Ruble, showcasing the region's commitment to adopting blockchain solutions.

Table 4.1: Cross-Border Payment Volumes in BRICS Economies (2023)

Country Pair	Annual Transaction Volume (USD Billions)	Main Currencies	Growth Rate (%)
China-India	60	CNY, INR	10
Russia-China	110	RUB, CNY	8
Brazil-Russia	25	BRL, RUB	6
South Africa-China	40	ZAR, CNY	7
India-South Africa	20	INR, ZAR	9

This table illustrates the substantial trade flow among BRICS countries and the motivation to develop seamless cross-border payment mechanisms.

4.1.6 BANKING-AS-A-SERVICE (BAAS)

Banking-as-a-Service (BaaS) allows non-bank entities to offer financial services without requiring a full banking license. This model supports the goals of BRICS Pay by enabling telecom companies, retailers, and other sectors to broaden financial access, particularly in remote regions. The integration of BaaS into BRICS Pay enhances financial inclusion and empowers local businesses to participate in the digital economy.

BaaS also facilitates seamless, cost-effective digital payments and banking services tailored to the needs of underserved populations. Telecom companies and retailers can use cloud-based platforms to quickly launch financial products such as savings accounts, loans, and payment solutions without significant upfront costs. This democratization of financial services is essential for economic growth in developing regions and for advancing the adoption of BRICS Pay.

4.1.7 BRICS PAY: A UNIFIED CROSS-BORDER PAYMENT SYSTEM

BRICS Pay aims to establish a digital payment network that facilitates seamless and low-cost cross-border transactions among member countries. This initiative seeks to promote economic cooperation, reduce reliance on Western payment networks, and minimize foreign currency exchange costs.

BRICS Pay could support various transaction types, including peer-to-peer payments, business transactions, and trade settlements. Leveraging blockchain and other digital technologies, it ensures fast, secure, and affordable cross-border payments.

5. FUTURE OF BANKING IN BRICS ECONOMIES

Economic growth, technological advancements, and changes in strategic policy will greatly impact the banking sectors in the BRICS Plus countries.

5.1 FINANCIAL INCLUSION AND ECONOMIC GROWTH

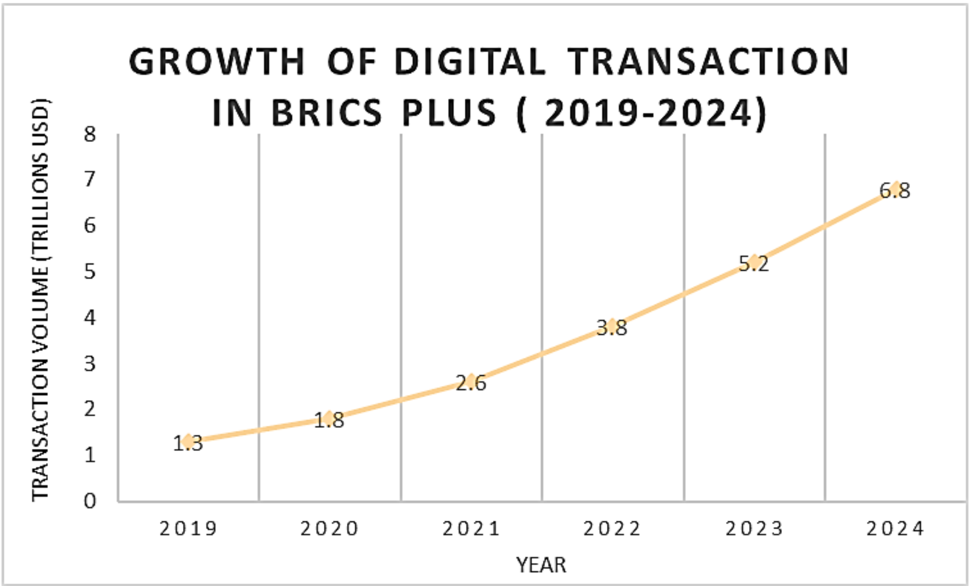
The combined economic output of the BRICS nations increased from 8% in 2000 to 19% in 2011, indicating significant economic growth. This expansion has sparked initiatives to improve financial inclusion, aiming to provide banking services to marginalized groups. However, these efforts may be hindered by issues such as uncertainty surrounding economic policies. Research shows that financial inclusion in BRICS countries is adversely impacted by significant economic policy uncertainty; however, this effect can be mitigated through effective governance.

5.2 COLLABORATION IN FINANCE AND DE-DOLLARIZATION INITIATIVES

To reduce their reliance on the US dollar in global trade, the BRICS countries are exploring alternative options. Initiatives include creating new financial structures and increasing trade and investment in local currencies. At a recent conference, Russia proposed developing an alternative international payments network to counter Western sanctions and lessen dollar dominance. Additionally, the BRICS nations have been increasing their gold reserves as part of their de-dollarization strategy.

5.3 INNOVATIONS IN TECHNOLOGY AND ONLINE BANKING

Technological advancements and rising internet usage are accelerating the adoption of fintech and digital banking solutions in BRICS economies. This shift is transforming traditional banking models, making financial services more accessible and efficient. For example, India's digital payment systems have revolutionized transactions and contributed to the advancement of a cashless society.



5.4 CENTRAL BANK DIGITAL CURRENCY (CBDC)

BRICS nations are advancing Central Bank Digital Currencies (CBDCs) to modernize financial systems and strengthen economic sovereignty. China leads with its digital yuan (e-

CNY), surpassing $986 billion in transactions by mid-2024 across multiple sectors. India is promoting its digital rupee, attracting tech giants like Google and Amazon to boost adoption and financial inclusion. Russia’s "BRICS Bridge" proposal aims to reduce reliance on the US dollar and evade sanctions, but it has received mixed reactions within BRICS.

Collaborative projects like the BIS-supported mBridge seek to streamline cross-border transactions and provide an alternative to SWIFT. However, challenges remain in achieving interoperability, regulatory alignment, and technological integration, with potential geopolitical implications for global financial stability.

Country	Status of CBDC	Pilot Launch Year	Key Use Cases
China	Active	2020	Retail transactions
India	In Development	2023 (planned)	Wholesale, retail payments
Russia	Testing	2021	Domestic payments
Brazil	Planning	2024 (planned)	Financial inclusion, remittances
South Africa	Exploration	TBD	Financial inclusion

This table summarizes CBDC development phases, pilot years, and use cases across countries, highlighting objectives such as retail payments and financial inclusion.

6. SUGGESTIONS

- The dominance of institutions like the IMF and World Bank, aligned with Western priorities, underscores the need for alternative financial bodies tailored to BRICS and the Global South. Establishing such institutions is crucial for balancing global economic power and fostering inclusive development.
- Enhancing financial inclusion is key, particularly by improving financial literacy in rural BRICS areas with limited access to banking. Empowering individuals in this way boosts economic opportunities.
- Encouraging SMEs to adopt digital payment solutions can expand their international market reach and competitiveness, driving the demand for stronger digital infrastructure, innovation, and growth across BRICS nations.

7. CONCLUSION

The BRICS Plus nations are leading a fintech revolution by leveraging innovations such as Decentralized Finance (DeFi), blockchain technology, AI-driven personalization, Embedded Finance, and Banking-as-a-Service (BaaS). These technologies aim to enhance financial inclusion, reduce transaction costs, and promote regional economic resilience.

The launch of BRICS Pay, a unified payment platform, represents a significant effort to decrease dependence on Western-dominated financial systems, thereby fostering economic independence. While these advancements offer transformative benefits, challenges remain. Regulatory inconsistencies and technological disparities among member nations could impede unified fintech integration. Additionally, the geopolitical complexities within BRICS Plus might create obstacles to collaborative initiatives.

Nevertheless, with ongoing innovation and cooperation, BRICS Plus countries are well-positioned to redefine global finance by establishing an inclusive and decentralized financial network that bolsters economic stability and growth.

REFERENCES

1. Accenture. (2022). *Blockchain technology in financial services.* Accenture.
2. Deloitte. (2023). *Global Fintech Report 2023.* Deloitte.
3. Ernst & Young. (2022). *Fintech in Africa: The future is now*. EY.
4. Karpuzoglu, K. P., & Ergun, M. Y. (2022). Financial technology and its role in financial inclusion: Evidence from BRICS nations. *Journal of Financial Services Research.*
5. McKinsey & Company. (2023). *The rise of embedded finance.* McKinsey & Company.
6. PricewaterhouseCoopers. (2023). *Fintech in Brazil: Trends, challenges, and opportunities.* PwC.
7. Smith, A. R., & Johnson, B. J. (2023). Understanding embedded finance: Opportunities and challenges. *Financial Technology Research.*
8. Lee, M., & Chen, C. (2022). The impact of AI on financial services: Trends and predictions. *Journal of Financial Technology*.
9. Zhang, L., & Wang, J. (2023). Decentralized finance (DeFi) and the future of financial services. *International Journal of Financial Studies.*

Navigating the Future: Challenges and Strategies in Succession Planning

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ABSTRACT:
Succession planning is a critical strategic process that ensures organizational continuity and stability by preparing future leaders to step into key roles. This research paper examines the challenges and strategies of succession planning within three prominent organizations: Microsoft, Apple, and Tata Group. Through a detailed analysis of leadership transitions, cultural dynamics, and talent development practices, the study identifies common challenges such as internal resistance, difficulties in talent identification, knowledge transfer issues, external market pressures, and the absence of formal succession processes.

Additionally, this research highlights effective strategies employed by these organizations to overcome these challenges, including internal talent promotion, diversity initiatives, proactive succession planning, and stakeholder engagement. The findings underscore the importance of structured frameworks and transparent communication in enhancing succession planning processes. Furthermore, this paper suggests areas for future research, including cross-industry comparisons, regional variations, longitudinal studies, and the role of technology in succession planning.

Keywords: *Succession Planning, Challenges, Strategies, Stakeholder Engagement, Talent, Diversity*

“Thoughtful planning for succession is not just a safety net; it's an investment in the team's future.”

INTRODUCTION

Succession planning is an essential component of organizational strategy, ensuring leadership continuity and the long-term sustainability of a company. In today’s rapidly evolving business environment, characterized by technological advancements and shifting market dynamics, effective succession planning has become more critical than ever. Organizations must not only prepare for planned transitions but also be equipped to handle unexpected leadership changes arising from retirements, resignations, or sudden departures.

This research paper examines the challenges and strategies of succession planning within three globally recognized companies: Microsoft, Apple, and Tata Group. Each organization presents a unique case study due to its distinct corporate culture, leadership style, and market position. Microsoft has navigated significant leadership transitions since its founding; Apple has faced the challenge of maintaining innovation while transitioning from its iconic founder; and Tata Group has a long-standing tradition of ethical leadership that it seeks to uphold in a rapidly changing business landscape.

Through an exploration of these case studies, this paper aims to identify the shared challenges organizations face in their succession planning efforts and examine the strategies they employ to overcome these obstacles. By analyzing internal resistance, talent identification issues, knowledge transfer challenges, external market factors, and the absence of structured processes, this study provides insights into best practices that can enhance succession planning across industries. Ultimately, this research contributes to a deeper understanding of how organizations can effectively prepare for future leadership transitions while preserving their core values and ensuring operational continuity.

OBJECTIVES OF THE STUDY

1. To identify and analyze the challenges of succession planning at Tata Group, Microsoft, and Apple.
2. To explore the effective strategies employed by Tata Group, Microsoft, and Apple in succession planning.

REVIEW OF LITERATURE

Dr. Suruchi Pandey and Deepesh Sharma published an article titled "Succession Planning Practices and Challenges: A Study of Indian Organizations" in *Elsevier* in 2014. Purpose of the study: The study aims to understand the current **p**ractices and approaches industries follow in succession planning. It is based on primary data collected as feedback on succession planning processes within industrial organizations. The study highlights the urgency of filling vacancies promptly to prevent business losses.

Yasmeen Bano, Siti Sarah Omar, and Fadillah Ismail published an article titled "Succession Planning Best Practices for Large and Small Organizations" in the *Mediterranean Journal of Social Science* in 2022. The purpose of this study is to provide an extensive literature review of best practices in succession planning. Furthermore, it highlights the importance of effective succession planning in recruitment, selection, employee retention, and the development of top management. A systematic literature review approach was adopted in this study. The research serves as evidence supporting the use of succession planning as an essential tool in recruitment processes, employee retention strategies, and leadership development within organizations.

Pritesh Rana published an article titled "A Study on the Significance of Succession Planning in Organizations" in the *International Journal of Research Publication and Reviews* in 2023. This study addresses the importance of succession planning and its impact on a company's success. It discusses the benefits, challenges, and success factors of succession planning based on a systematic literature review and case study findings. The research results indicate that effective succession planning fills leadership vacancies, enhances organizational continuity, improves employee engagement, attracts top talent, and fosters innovation.

Reshoketswe S. Maroga, Cecile M. Schultz, and Pieter K. Smit published an article titled "Succession Planning Mediates Self-Leadership and Turnover Intention in a State-Owned Enterprise" in the *SA Journal of Human Resource Management* in 2024. The study aimed to determine whether succession planning mediates the relationship between self-leadership and turnover intention in a state-owned enterprise. The research employed a quantitative approach and a cross-sectional survey design based on positivism. Data was collected through structured questionnaires, achieving a response rate of 78.67%. The reliability of the questionnaire was recorded at 09.222, indicating strong internal consistency. Data analysis was conducted using correlation and multiple regression analysis, revealing that self-leadership marginally predicts turnover intention.

Billiat Chigaga and Mubanga Mpundu published an article titled "Ensuring Business Continuity through Succession Planning: A Case Study of Zimbabwean Businesses" in the *International Journal of Innovative Science and Research Technology* in 2024. This study explored the role of succession planning in ensuring business continuity among Zimbabwean businesses. Methodology: A case study design was adopted, focusing on Zimbabwean businesses. Semi-structured interviews were conducted with top management and HR professionals from purposefully selected companies. The findings revealed that succession planning plays a crucial role in ensuring business continuity. Statistical analysis confirmed a positive and significant relationship between succession planning and business continuity, making it a strong predictor of long-term organizational survival and growth.

CONCEPTUAL FRAMEWORK

Succession: A process where an individual assumes an official position or job previously held by another person.

Succession Planning: The methodology of identifying critical roles within an organization and developing individuals to take over those roles. It aligns the organization for the future by linking required skills and expertise with qualified individuals. For some organizations, succession planning is a short-term priority, while others have long-term plans regarding leadership transitions.

Succession Management: A holistic process that goes beyond planning for unforeseen leadership changes. It aims to strategically place individuals in key roles by integrating recruitment, training, and human resource management. Succession management focuses not only on knowledge transfer but also on leadership development and workforce sustainability.

EXPLANATION OF SUCCESSION PLANNING AS A STRATEGIC PROCESS

Succession planning is a strategic process designed to ensure organizational stability and continuity by preparing individuals to fill key roles within a company. It involves several critical steps:

1. **Identification of Key Positions:** Organizations must first identify critical roles that significantly impact operational success. These include leadership positions and specialized roles essential for achieving business goals.
2. **Assessment of Talent:** Once key positions are identified, the next step is to assess existing talent within the organization. This involves evaluating employees' skills, leadership qualities, and cultural fit to determine potential successors.
3. **Development of Successors:** After identifying potential candidates, organizations must create tailored training and development plans to prepare them for future roles. This may include mentoring, job rotations, and targeted training programs.

4. **Implementation of Succession Plans:** Effective succession planning requires a structured implementation process, including clear timelines, responsibilities, and progress monitoring. Organizations must ensure that adjustments are made as necessary.
5. **Evaluation and Adjustment:** Organizations should regularly evaluate the effectiveness of their succession plans to ensure they align with evolving business needs and market conditions.

By proactively managing succession planning, organizations can minimize disruptions caused by leadership changes, foster a culture of growth, and enhance overall organizational resilience.

IMPORTANCE OF ENSURING LEADERSHIP CONTINUITY

Ensuring leadership continuity is crucial for maintaining organizational stability and achieving long-term success. The key reasons include:

1. **Business Resilience:** Leadership continuity safeguards organizations against disruptions caused by unexpected departures, ensuring smooth operations during transitions.
2. **Strategic Alignment:** A robust succession plan aligns leadership transitions with the organization's strategic goals, facilitating a seamless shift in direction without losing momentum.
3. **Talent Development:** By identifying and nurturing potential leaders, organizations create a pipeline of capable individuals ready to step into critical roles, enhancing overall talent management.
4. **Cultural Preservation:** Effective succession planning helps maintain the organization's culture and values during leadership changes, which is essential for employee morale and stakeholder trust.
5. **Minimized Risk:** Organizations with a clear succession plan reduce the risks associated with leadership vacancies, including loss of institutional knowledge and weakened stakeholder relationships.
6. **Enhanced Performance:** Leadership continuity fosters a culture of growth and development, motivating employees and improving overall performance by providing clear career pathways.

In summary, ensuring leadership continuity is not merely a reactive measure but a proactive strategy essential for sustaining an organization's mission and long-term viability.

CHALLENGES IN SUCCESSION PLANNING

The challenges in succession planning encompass several critical areas that organizations must navigate effectively:

1. **Internal Resistance**
    - **Cultural Barriers:** Organizations often face cultural resistance that can hinder the acceptance of new leadership. Employees may be apprehensive about changes, fearing disruptions to established norms and practices.

2. **Talent Identification**
    - **Difficulty in Recognition:** Identifying potential leaders within the organization can be challenging. Bias and subjective assessments often cloud judgment, leading to the oversight of capable candidates.
3. **Knowledge Transfer**
    - **Critical Knowledge Gaps:** During leadership transitions, transferring essential knowledge becomes a challenge. The risk of losing institutional memory can adversely affect organizational continuity and performance.
4. **External Market Factors**
    - **Market Dynamics:** External competition and economic uncertainties complicate succession planning. Organizations must adapt their strategies to align with rapidly changing market conditions.
5. **Lack of Formal Processes**
    - **Absence of Structured Frameworks:** Many organizations lack formal processes for identifying successors, relying instead on informal practices that may not be effective. This can lead to gaps in leadership readiness and continuity.

Addressing these challenges requires a proactive and structured approach to succession planning, ensuring that organizations are prepared for future leadership transitions.

EFFECTIVE STRATEGIES

Effective succession planning requires a multifaceted approach. Here are key strategies that organizations can implement:

1. **Talent Development Programs**
    - **Implementation:** Organizations should establish comprehensive training, mentorship, and coaching initiatives to prepare potential leaders. This includes structured programs that provide hands-on experience and leadership training.

Case Examples

- *Microsoft* has invested in leadership development programs that emphasize continuous learning and skills enhancement.
- *Apple* focuses on internal promotions and mentorship to develop talent from within, ensuring alignment with company culture.
- *Tata Groups* utilizes structured leadership development frameworks to nurture high-potential employees through various stages of their careers.

2. **Diversity and Inclusion Initiatives**
    - **Strategies:** Organizations must actively work to create a diverse leadership pipeline by implementing recruitment practices that prioritize inclusivity. This includes outreach programs aimed at underrepresented groups.
    - **Benefits:** A diverse leadership team brings varied perspectives, enhancing decision-making processes and driving innovation. Companies with diverse executive teams are more likely to outperform their peers financially.

3. **Proactive Succession Planning**
   - **Regular Reviews:** Succession plans should be regularly reviewed and updated to reflect changes in organizational goals and market conditions. This ensures that the plans remain relevant and effective.
   - **Scenario Planning:** Preparing for unexpected leadership changes through scenario planning helps organizations mitigate risks associated with sudden departures.
4. **Leadership Assessment Tools**
   - **Use of Assessments:** Implementing psychometric assessments and performance evaluations can help identify high-potential employees. These tools provide objective data to support talent selection and development.
   - **Feedback Mechanisms:** Establishing regular feedback loops allows organizations to monitor the progress of potential leaders and adjust development programs as needed.
5. **Engaging Stakeholders**
   - **Involvement of Key Stakeholders:** Engaging senior leaders, HR professionals, and employees in the succession planning process fosters a sense of ownership and commitment to the initiative.
   - **Building a Culture of Transparency:** Organizations should cultivate an environment that values open communication about leadership transitions, which can alleviate employee apprehension and resistance.

By implementing these strategies, organizations can build robust succession plans that ensure leadership continuity while fostering a diverse and inclusive workplace culture.

CASE STUDIES

1. Microsoft

- **Overview of Leadership Transition:** The transition from Bill Gates to Steve Ballmer in 2000 marked a significant shift for Microsoft. Gates, known for his visionary approach, handed over the reins to Ballmer, who focused on operational efficiency and market expansion.
- **Internal Talent Promotion Strategies:** Microsoft emphasized promoting internal talent during this transition, encouraging leaders from various departments to step up. This strategy aimed to leverage existing knowledge and maintain continuity.
- **Challenges Faced:** The transition faced challenges such as cultural shifts and resistance from employees accustomed to Gates's leadership style. Additionally, Ballmer's focus on business operations led to criticism regarding innovation stagnation.

2. Apple

- **Examination of Leadership Change:** Tim Cook took over as CEO from Steve Jobs in 2011. Cook's leadership style contrasts sharply with Jobs's autocratic approach; he emphasizes collaboration and operational stability.
- **Focus on Internal Promotions:** Apple has prioritized internal promotions, fostering a

culture of growth and continuity. This strategy has helped maintain the company's core values while adapting to new market demands.

- **Strategies for Knowledge Transfer:** To facilitate knowledge transfer during significant transitions, Apple has implemented mentorship programs and structured onboarding processes for new leaders, ensuring critical information is retained within the organization.

3. Tata Group

- **Insights into Structured Approach:** Post-Ratan Tata, the Tata Group has adopted a structured approach to succession planning, emphasizing long-term vision and leadership continuity. This includes identifying potential successors early and providing them with the necessary resources and training.
- **Discussion on Long-term Vision:** The Tata Group's commitment to its foundational values and ethical practices remains central to its leadership strategy. This long-term vision ensures that successors align with the group's mission.
- **Role of Tata Trusts:** The Tata Trusts play a crucial role in guiding succession decisions, ensuring that leadership transitions reflect the group's values and commitment to social responsibility while maintaining business excellence.

These case studies illustrate how each organization navigates the complexities of leadership transitions while striving for continuity and alignment with their core values.

COMPARATIVE ANALYSIS

COMMON THEMES ACROSS COMPANIES

Microsoft, Apple, and Tata Group face several shared challenges in their succession planning efforts:

1. **Leadership Transition Issues:** Each organization has experienced significant leadership changes that raised concerns about maintaining strategic vision and company culture. For instance, the transitions from Bill Gates to Steve Ballmer at Microsoft, from Steve Jobs to Tim Cook at Apple, and the tumultuous shift from Ratan Tata to Cyrus Mistry at Tata highlighted difficulties in aligning new leaders with the established ethos of their respective companies.
2. **Cultural Preservation:** Maintaining organizational culture during leadership changes is crucial. Microsoft and Apple both faced challenges in ensuring that new leaders could uphold the innovative and collaborative cultures established by their predecessors. Similarly, Tata's leadership transition revealed tensions regarding the preservation of its ethical values amidst changing management styles.
3. **Talent Development and Identification:** All three companies struggle with identifying and developing internal talent for future leadership roles. The need for structured development programs is evident, as insufficient preparation can lead to ineffective leadership transitions.
4. **Resistance to Change:** Each organization has encountered resistance from employees during transitions, particularly when new leaders implement different strategies or

cultural shifts. This resistance can undermine morale and hinder the effectiveness of succession efforts.

5. **Communication Gaps:** Effective communication is vital during succession planning. Misalignment in vision or strategy between outgoing and incoming leaders can create confusion among employees, impacting overall performance and cohesion within teams.

UNIQUE STRATEGIES EMPLOYED BY EACH ORGANIZATION

Despite these common challenges, each organization employs distinct strategies tailored to its unique culture and structure:

1. **Microsoft:**
   - **Focus on Internal Talent Promotion:** Microsoft emphasizes nurturing internal talent through structured development programs, allowing employees to grow into leadership roles while maintaining continuity.
   - **Proactive Succession Planning:** The company regularly reviews its succession plans to adapt to changing market conditions and organizational needs.
2. **Apple:**
   - **Emphasis on Internal Promotions:** Apple prioritizes promoting from within to ensure that new leaders are aligned with its culture of innovation and excellence.
   - **Knowledge Transfer Mechanisms:** The company implements mentorship programs and structured onboarding processes to facilitate knowledge transfer during significant leadership transitions.
3. **Tata Group:**
   - **Structured Succession Frameworks:** Post-Ratan Tata, the Tata Group has adopted a formalized approach to succession planning, focusing on long-term vision and leadership continuity.
   - **Role of Tata Trusts:** The Tata Trusts play a crucial role in guiding succession decisions, ensuring that leadership transitions reflect the group's values and commitment to social responsibility while maintaining business excellence.

These unique strategies highlight how each organization addresses its specific challenges while striving for effective succession planning and leadership continuity.

FINDINGS

The analysis of succession planning in Microsoft, Apple, and Tata Group reveals several key challenges and effective strategies:

KEY CHALLENGES:

1. **Leadership Transition Issues:** Each organization faced difficulties in maintaining strategic vision and culture during leadership changes.
2. **Cultural Preservation:** Ensuring that new leaders uphold established values was a common concern.
3. **Talent Development and Identification:** Identifying and nurturing internal talent for

leadership roles proved challenging across all three companies.

4. **Resistance to Change:** Employee apprehension regarding new leadership styles often hindered transitions.
5. **Communication Gaps:** Misalignment between outgoing and incoming leaders created confusion and impacted team cohesion.

EFFECTIVE STRATEGIES:

- **Internal Talent Promotion:** Emphasized by Microsoft and Apple, promoting from within helps maintain continuity and cultural alignment.
- **Structured Development Programs:** All three organizations benefit from formalized training and mentorship initiatives to prepare future leaders.
- **Knowledge Transfer Mechanisms:** Apple's focus on mentorship ensures critical knowledge is retained during transitions.
- **Proactive Succession Planning:** Regular reviews of succession plans help organizations adapt to changing conditions, as seen in Microsoft's approach.
- **Role of Governance Structures:** Tata Group's use of the Tata Trusts exemplifies how governance can guide succession decisions effectively.

IMPLICATIONS FOR PRACTICE

Organizations seeking to enhance their succession planning processes should consider the following recommendations:

1. **Develop Structured Frameworks:** Establish formal processes for identifying and developing potential leaders, ensuring alignment with organizational goals and values.
2. **Foster a Culture of Internal Mobility:** Encourage internal promotions to cultivate a sense of loyalty and continuity among employees.
3. **Implement Comprehensive Development Programs:** Invest in training, mentorship, and coaching initiatives that prepare employees for future leadership roles.
4. **Enhance Communication Strategies:** Promote transparency during leadership transitions to mitigate resistance and foster trust among employees.
5. **Regularly Review Succession Plans:** Conduct periodic assessments of succession plans to ensure they remain relevant in the face of changing market dynamics.

FUTURE RESEARCH DIRECTIONS

Further studies on succession planning could explore:

1. **Cross-Industry Comparisons:** Investigate how different industries approach succession planning, identifying best practices that can be adapted across sectors.
2. **Regional Variations:** Examine how cultural differences influence succession planning strategies in various geographical regions.
3. **Longitudinal Studies:** Conduct long-term studies to assess the effectiveness of different succession planning strategies over time, providing insights into their impact on organizational performance.
4. **Technology's Role in Succession Planning:** Explore how emerging technologies, such as AI and data analytics, can enhance talent identification and development

processes.

By addressing these areas, future research can contribute valuable insights into effective succession planning practices that promote organizational resilience and sustainability.

CONCLUSION

Effective succession planning is essential for sustaining managerial effectiveness in a constantly changing business environment. The insights gained from this study will serve as a guide for organizations seeking to improve their succession planning processes, ultimately securing their future and maintaining their competitive edge.

REFERENCES

JOURNALS

1. Bano, Y., Omar, S. S., & Ismail, F. (2022). Succession planning best practices for large and small organisations. *Mediterranean Journal of Social Science*. https://creativecommons.org/licenses/by-nc/4.0/
2. Chigaga, B., & Mpundu, M. (2024). Ensuring business continuity through succession planning: A case study of Zimbabwean businesses. *International Journal of Innovative Science and Research Technology, 9*(7). http://dx.doi.org/10.38124/ijisrt/IJISRT24JUL230
3. Maroga, R. S., Schultz, C. M., & Smit, P. K. (2024). Succession planning mediates self-leadership and turnover intention in a state-owned enterprise. *SA Journal of HRM*. https://sajhrm.co.za/index.php/sajhrm/article/view/2304/3701
4. Pandey, S., & Sharma, D. (2014). Succession planning practices and challenges: Study of Indian organisations. *Elsevier*. http://creativecommons.org/licenses/by-nc-nd/3.0/
5. Rana, P. (2023). A study on the significance of succession planning in organisations. *International Journal of Research Publication and Reviews, 4*(7). https://ijrpr.com/uploads/V4ISSUE7/IJRPR15331.pdf

CONCEPTS SOURCES

1. Advance HE. (n.d.). Succession management definitions. https://www.advance-he.ac.uk/knowledge-hub/succession-management-definitions
2. Treasury Board of Canada Secretariat. (n.d.). Succession planning and management five-step process. https://www.tbs-sct.canada.ca/gui/spgr/spg-gpgr-02-eng.asp?for=hrps
3. AIHR. (2025). Succession planning: All you need to know [2025 edition]. https://www.aihr.com/blog/succession-planning/
4. OrgVue. (n.d.). Succession planning examples – Learning from industry leaders. https://www.orgvue.com/resources/articles/succession-planning-examples-learning-from-industry-leaders/
5. HiBob. (n.d.). What is succession planning? https://www.hibob.com/hr-glossary/succession-planning/
6. University of Washington HR. (n.d.). Succession planning – Professional & organizational development. https://hr.uw.edu/pod/organizational-excellence-and-

development/organizations/succession-planning/
7. TechTarget. (n.d.). What is succession planning?
    - https://www.techtarget.com/searchhrsoftware/definition/succession-planning
8. Qooper. (n.d.). Strategies for succession planning in the workplace. https://www.qooper.io/blog/strategies-for-succession-planning
9. FasterCapital. (n.d.). The importance of succession planning in team building. https://fastercapital.com/content/The-Importance-of-Succession-Planning-in-Team-Building.html
10. Exceptional HR Solutions. (n.d.). Leadership continuity. https://www.exceptionalhrsolutions.com/additionalservices/leadership-continuity/
11. ASCLS. (n.d.). Leadership continuity: The passing of the torch. https://ascls.org/leadership-continuity-the-passing-of-the-torch/
12. FMI Corp. (n.d.). The continuity mindset: Managing succession for lasting organizational success. https://fmicorp.com/insights/quarterly-articles/the-continuity-mindset-managing-succession-for-lasting-organizational-success
13. In Trust Center. (2019). Building a culture of leadership continuity. https://www.intrust.org/in-trust-magazine/issues/summer-2019/building-a-culture-of-leadership-continuity
14. DHR Global. (n.d.). Ensuring leadership continuity with succession planning. https://www.dhrglobal.com/insights/ensuring-leadership-continuity-with-succession-planning/
15. Harvard Business Review. (2021, May). The high cost of poor succession planning. https://hbr.org/2021/05/the-high-cost-of-poor-succession-planning
16. People Matters. (n.d.). Leading the way: A roadmap for effective succession planning. https://www.peoplematters.in/article/leadership-solutions/leading-the-way-a-roadmap-for-effective-succession-planning-39192

INDUSTRY REPORTS AND CASE STUDIES

1. Investopedia. (n.d.). *Tim Cook: Apple CEO's strengths, reputation, and FAQs*. https://www.investopedia.com/ask/answers/032515/what-tim-cooks-managerial-style.asp
2. Forbes. (2021, December 15). *What is Tim Cook's greatest contribution to Apple since he became CEO?* https://www.forbes.com/sites/timbajarin/2021/12/15/what-is-tim-cooks-greatest-contribution-to-apple-since-he-became-ceo/
3. Apple Newsroom. (2024). *Apple announces Chief Financial Officer transition*. https://www.apple.com/newsroom/2024/08/apple-announces-chief-financial-officer-transition/
4. Economic Times. (n.d.). *Tata-Mistry conflict: Lessons for leadership and succession planning*. https://economictimes.indiatimes.com/familybusinessforum/insights/tata-mistry-conflict-lessons-for-leadership-and-succession-planning/articleshow/61740155.cms

Brand Engagement on Social Media and its Impact on Brand Equity in Higher Education, with Special Reference to Chennai City

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ABSTRACT

Higher education institutions increasingly utilize social media and networking platforms as key communication channels for brand promotion. The importance of these platforms continues to rise, particularly due to the prominence of online participation and engagement. While social media is widely acknowledged as a key marketing communication tool, its impact on brand equity creation in higher education—stemming from both student engagement and institutional marketing activities—has been somewhat neglected.

This study is based on social categorization theory, focusing on the psychological framework to scrutinize how individuals define themselves based on their group activities and various social groups, which influence their self-concept, behavior, and interactions. This study aims to explore the association between brand engagement on social media and brand equity among respondents. It also seeks to identify the differences in brand equity perceptions between higher education institutions with high social media engagement, as perceived by respondents, and how social media influences higher education branding.

A comprehensive survey was conducted with a sample of 436 participants, comprising current students, alumni, faculty, staff, and educational consultants from ten selected private higher education institutions situated in and around Chennai, Tamil Nadu. Data were meticulously gathered through purposive sampling, and the mean and standard deviation were calculated to analyze the research questions. ANOVA was used to test the hypotheses at a 0.05 significance level, along with descriptive statistics and inter-correlation analysis.

The research findings revealed measures for enhancing social media strategies, monitoring engagement metrics, and focusing on brand equity by integrating insights across higher education departments. The factor loading results revealed that social brand engagement mediates the relationship between users—both students and institutions—and brand equity. The results also show a strong relationship between brand engagement and brand loyalty.

This study provides a new dimension for understanding brand engagement and end-user behavior on social media networking sites of higher education institutions.

Keywords: *Brand Engagement, Brand Equity, Higher Education Institutions, Social Media*

INTRODUCTION

Elucidating the intricate relationship between social media activity and brand perception within the higher education landscape, higher education refers to professional programs designed by universities, colleges, and other learning institutions. It encompasses a wide range of academic and advanced knowledge with profound skill sets. Higher education includes professional degrees, research, teaching and learning, professional development, continuing education, and student support services.

Comprehensively, brand equity consists of brand satisfaction, perceived quality, brand leadership, brand association, brand personality, organization differentiation, and brand awareness. Meanwhile, brand engagement involves brand awareness, brand performance, brand image, brand judgment, brand feeling, brand loyalty, brand attachment, brand community, and brand commitment. Social media comprises various online platforms and applications that enable end-users to connect through prominent and popular platforms, including Facebook, Instagram, X (formerly Twitter), interactive websites, VR/AI-enabled mobile applications, LinkedIn, Snapchat, Pinterest, YouTube, and WhatsApp. Each platform caters to different demographics, interests, and communication preferences.

This study is based on social categorization theory, developed by Henri Tajfel and John Turner in the 1970s. This psychological framework explains how individuals define themselves based on their group activities and various social groups, which influence their self-concept, behavior, and interactions.

Higher education institutions are increasingly driven by commercial competition imposed by economic forces resulting from the development of global education markets. As competition in the global marketplace intensifies, higher education institutions are striving to differentiate their offerings to stay ahead of competitors. According to James et al. (1989), the key strategy for higher education institutions is to endure in a challenging competitive environment and establish a unique trademark. Furthermore, the choice of higher education represents a significant personal investment for students, carrying a high level of risk. Addressing this, Papadimitriou (2018) states in "Competition in Higher Education Branding and Marketing" that positive brand equity signals to prospective students that the promised services will be delivered, thereby justifying the risk associated with experience and credibility. As such, relevant brand equity enables higher education institutions to highlight their practical advantages by showcasing awards, performances, and achievements that strengthen their brand positioning.

These marketing qualities are recognized as essential factors in shaping students’ positive attitudes toward selecting an institution. In recent years, branding activities in higher education have evolved beyond traditional methodologies, integrating technologically enhanced digital domains and social media platforms (Agapitos & Lacerda, 2014). The current students of higher education institutions belong to Generation Z and Millennials, who predominantly engage with online platforms and frequently use social media for information gathering and dissemination. The increased interactive use of social media enhances students’ engagement with higher education brands (Benson & Morgan, 2014).

Enhanced enrollment and student retention serve as effective brand engagement strategies, attracting prospective students, faculty, and staff to higher education institutions. These strategies also cultivate a sense of belonging and satisfaction among current students and employees, contributing to improved retention rates (Baker, 2012). Additionally, opportunities for innovation and collaboration arise as stakeholders provide valuable feedback, share ideas, and create collaborative opportunities that drive continuous institutional improvement.

The historical evolution of higher education in America (1890–1940), as explained by Goldin and Katz (1999), highlights how larger institutions transitioned into a landscape featuring both liberal arts colleges and large research universities. They note the significant proportion of enrollments in the public sector, the integration of professional schools within larger universities, and the varied levels of state support for higher education. Additionally, the changing market structure of higher education indicates that increased competition led to higher average college quality and tuition, while student quality within colleges and the level of competition declined.

While students are key contributors to social media engagement in higher education institutions, their perceptions of biased norms in brand engagement have been largely overlooked (Tavakoly Sany et al., 2023). The current study aims to expand existing literature by providing empirical evidence on how social media content affects brand equity through students' social brand engagement. It explores the relationship between brand engagement, social media, and social brand equity in the higher education sector, utilizing social categorization theory as its theoretical framework.

REVIEW OF LITERATURE

Social Media marketing leverages the creation and exchange of data and information between users and firms. Since the information shared by users holds non-commercial value, brand-related comments and reviews are often viewed as highly trustworthy and reliable sources that influence others within a consumer's social media network (Ozuem and Naeem, 2021) . However, (Wang 2017) found that a significant portion of social media users actively engage in providing reviews and feedback, with around 61% of Gen Z individuals using social media frequently to monitor interactions such as likes from friends and to check for negative comments about themselves. In the context of higher education, students facilitate connections among stakeholders by forming social media groups to reach the right audience as part of marketing strategies, sharing their experiences with institutions (Swart et al., 2019). Conversely, firms, institutions, and companies generate their own content on their official social media platforms to promote their brands (Kumar and O'Connor et al., 2019) . While it is essential for customers to rely on their judgment when engaging with brands on social media, organizations must actively interact with consumers regarding their services, products, and brand enhancements. Higher education institutions are particularly engaged in sharing information to reach prospective students globally. Given that younger generations are more inclined toward social media, these institutions disseminate information through their official sites and social media pages to boost awareness (Rizomyliotis et al., 2023).

Higher Education Institutions maintain dedicated Facebook pages, blogs, academic department profiles, and sports pages to effectively reach their target audience (Peruta and Shields, 2018) Previous research has highlighted the significance of students' social media use in relation to their self-esteem, social capital formation, educational pursuits, and acculturation. However, there has been a lack of empirical investigation into the relevance of both student-generated and institution-generated information within the higher education sector. This research aims to provide further insight into how students engage with their higher education institutions based on social media content.

Brand Engagement: Recent advancements in the study of brand engagement within marketing recognize that a commitment to a brand encompasses a comprehensive array of interactions with others, transcending mere subconscious connections between individuals and the brand itself. This dynamic network perspective on brand engagement underscores that student interactions often reference the institution's brand, yet these interactions frequently unfold beyond the institution's immediate control (Fritz, S.et al., 2021).

The concept of social brand engagement within a university represents a nuanced amalgamation of interactions involving various stakeholders—both directly and indirectly associated with the institution, such as students and university representatives. These engagements foster a connection between the student and the university. In the realm of higher education, social brand engagement occurs when students discuss their university experiences with one another, thereby reinforcing their relationship with the institution. Building on this framework, Bagozzi, R.P. (2014) define social brand engagement as the degree of interactions and connections students have with the university brand, shaped by their discussions with peers regarding the institution.

Brand Equity: The concept of brand equity refers to the commercial value that arises from consumer perceptions of a brand name associated with a specific product or service, rather than the product or service itself. The concept emerged in the 1980s and gained significant prominence in business and research during the 1990s (Aaker and Keller, 1990; Aaker, 1991; Keller, 1990).

Belaid, S. &Temessek, B.A. (2011) conducted a study titled "The Role of Brand Equity Attachment in Building Consumer-Brand Relationships." The primary aim of the research was to develop a conceptual framework addressing consumer engagement in the creation of brand equity. The analysis revealed factors essential for understanding consumers' mindsets and their active involvement with the brand as partners in generating brand value and identity. Customers engaged in this manner are likely to create and sustain value, which is crucial for enhancing brand equity.

The higher education sector has recently transitioned to marketing-oriented approaches, leveraging technological advancements and modern telecommunications for advertising and branding, viewing students as customers of higher education institutions. Gupta and Kaushik (2018) argue that while higher education encompasses a variety of customers and stakeholders—including future employers, government entities, and society at large—students remain the primary customers. Consequently, this study focuses on student-based brand equity for higher education institutions, considering the perspectives of current students, alumni, prospective students, faculty, staff, and educational consultants as key stakeholders.

The relationship and confidence test, the following variables were taken into consideration:

Social Media Engagement, Brand Equity, Student Interactions, Brand Engagement, Institutional Marketing Activities, Subjective Norms, Student Engagement, Digital Orientation, Brand Loyalty, User Group Type, Engagement Levels, Student Content and Institution Content were included and clearly mapped in the conceptual framework. Thus, this research adopts an empirical model developed by (Henri Tajfel) and (John Turner) by synthesizing the qualities of brand engagement on social media and its impact on higher education services that influence the conceptualized dimensions of brand equity: social image, performance, attachment, trustworthiness and value.

PROBLEM STATEMENT

The impact of brand equity in higher education institutions on social media and networking platforms for brand promotion remains largely unexplored. To better understand the gaps in engagement and enhance institutions' ability to effectively connect with key stakeholders—including current and prospective students, alumni, faculty, and staff—further research is needed.

Additionally, the role of social categorization in shaping students' perceptions and interactions with institutional content has not been adequately examined. This study seeks to investigate the qualities of brand engagement on social media and its impact on higher education institutions, influencing the conceptualized dimensions of brand equity.

By addressing these issues, this research aims to expand our understanding of brand engagement and user behavior on social media platforms within the higher education sector.

OBJECTIVES OF THE STUDY

1. To explore the association between brand engagement on social media and brand equity among respondents.
2. To identify the difference in brand equity perceptions between higher education institutions with high social media engagement as perceived by respondents.
3. To examine the influence of social media on higher education branding among respondents of higher education institutions.
4. To identify the types of social media content that effectively drive engagement and contribute to brand equity.

HYPOTHESES OF THE STUDY

H01: There is a significant association between brand engagement on social media and brand equity among respondents.

H02: There is a significant difference in brand equity perceptions between institutions with high social media engagement and those with low engagement, as perceived by respondents.

H03: Social media significantly influences higher education branding among respondents of higher education institutions.

RESEARCH METHODOLOGY

Research Design:

A quantitative exploratory research study was conducted to investigate the relationship between the variables of Social Media Brand Engagement (SMBE), Social Media Brand Equity

(SMBQ), Student-Created Social Content (SCSC), Institution-Created Social Content (ICSC), and Prejudiced Norms on Institutions (PNOI) using feedback from respondents. Both primary and secondary research methods were employed. The secondary research involved gathering analytical insights to develop a critical and statistical understanding of the behavioral patterns of the variables in the study. This included a review of relevant research articles, blogs, newspapers, journals, and annual reports. For the primary research, an online survey was distributed to collect data.

Study Area:

The research was conducted in and around Chennai City, Tamil Nadu.

Study Population:

The researcher selected ten Higher Education Institutions from Chennai City based on intensive research, high-tech teaching, regional focus, and special interest from Indian higher educational sectors. The sample included current students, alumni, faculty, staff, and educational consultants from these ten private Higher Education Institutions. A total of 436 duly completed responses were considered valid for subsequent quantitative analysis. All responses were recorded using an ordinal 7-point Likert scale, ranging from "strongly disagree" to "strongly agree."

Data Collection:

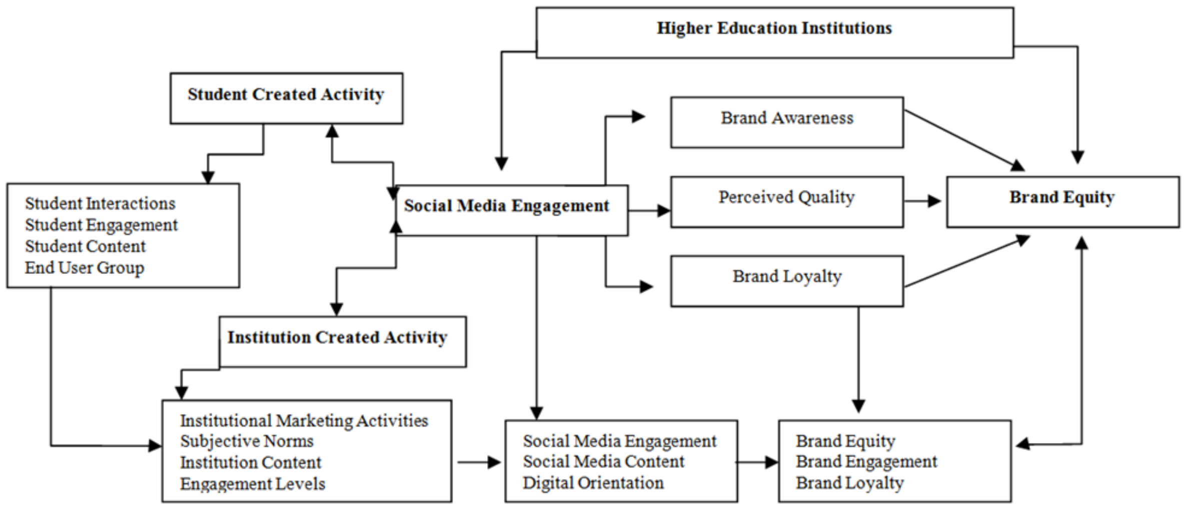
Data were gathered through a structured questionnaire, designed via Google Forms and disseminated online.

Study Period:

The data collection took place from January 2024 to July 2024, resulting in a total of 436 completed survey forms included in the final analysis.

The study seeks to determine the strength of the relationships between the two sets of variables and to assess the contributions of independent and dependent variables when the models are optimally correlated.

Figure 1: Proposed Conceptual Framework



ANALYSIS AND INTERPRETATION

Demographic Information

A total of 436 surveys were collected from 10 higher education institutions. The demographic details of the respondents are presented in Table 1. The largest group, comprising 37%, were current students, followed by 32% identified as alumni. Faculty and staff made up 17% of the respondents, while educational consultants represented the smallest group at 14%.

Among the respondents, 69% were male. Approximately 48% of participants reported spending more than four hours on social media daily, with 36% using Facebook and only 5% utilizing X. The remaining 11% engaged with VR/AI (Virtual Reality/Artificial Intelligence)-enabled websites.

Table 1: Demographic Profile of the Respondents

Criteria	Questionnaire items	F	%
Gender	Male	299	69%
	Female	137	31%
Total		436	100%
Category	Student	161	37%
	Alumni	140	32%
	Faculty and Staff	74	17%
	Educational Consultants	61	14%
Total		436	100%
Time spent on Social Media	Less than 1 hour	53	12%
	1 - 2 Hours	57	13%
	2-3 Hours	118	27%
	More than 4 Hours	208	48%
Total		436	100%
Social Media Patronized	Facebook	155	36%
	Whatsapp	133	31%
	Instagram	74	17%
	X	22	5%
	VR/AI Websites	52	11%
Total		436	100%

Mean Values of Individual Respondents

The questionnaire used in this study helped assess the influence of brand engagement on social media on brand awareness among respondents from higher education institutions across all listed attributes. The mean score for each variable theoretically ranges from 6 to 20. The data collected through the questionnaire has been analyzed and is presented in Table 2 below.

The analysis indicates that the mean scores for all attributes closely align with the norms of brand engagement on social media profiles. However, examining the data based on individual respondents' mean values reveals a different perspective. It was found that most respondents were "proud of deciding to enroll at this university." Following this, satisfaction levels decreased significantly.

Table 2 presents the range, variance, and standard deviations calculated to assess variability. Additionally, measures of shape, such as skewness and kurtosis, were computed to better understand the nature of the distribution. To calibrate the interval-scale variables, descriptive statistics—including minimum, maximum, mean, range, standard deviation, and variance—were obtained.

Table 2: Individual respondents mean values - score (*primary data*) on Brand engagement on Social Media and its impact on Brand equity in higher education

S. No	Brand Engagement on Social Media on Brand Equity in Higher Education Institutes	Indicators	Range	Min	Max	Mean	SD	%	Var	Skew	Kurtosis	Rank
Social Media Brand Engagement (SMBE)												
01	Anticipate exceptional teaching quality	SMBE 1	13	8	20	14.38	2.41	70.41	5.77	–0.54	–0.10	2
02	Demonstrated a lower tendency for errors in quality	**SMBE 2**	16	6	21	14.39	2.39	70.43	6.17	–0.38	0.36	18
03	Appears to be a place of learning with no quality issues	**SMBE 3**	14	8	21	14.48	2.14	70.88	4.17	–0.06	0.57	25
04	Proud of deciding to enroll at this university	**SMBE 4**	16	6	21	12.67	1.81	63.87	3.76	–0.10	1.18	28
05	I believe my friends will hold this university in high regard	**SMBE 5**	16	6	21	15.56	2.83	78.20	8.75	–0.68	0.41	21
06	Information from social media, this university aligns well	**SMBE 6**	11	7	19	12.59	1.56	62.43	2.47	0.03	0.02	7
Social Media Brand Equity (SMBQ)												
07	A degree from this university is	**SMBQ 1**	11	8	21	13.92	1.72	68.08	3.23	0.01	0.07	11

	valuable											
08	For the Fees, can receive more in return than what I invest	**SMB Q 2**	15	6	20	13.85	2.29	68.49	4.18	–0.41	0.25	14
09	The university seems very attentive to students' interests.	**SMB Q 3**	13	8	20	14.37	2.42	69.42	4.77	–0.44	–0.09	3
10	I believe this university does not exploit its students.	**SMB Q 4**	14	6	21	14.38	2.40	71.44	6.17	–0.28	0.35	17
11	Experience at this university greatly enhanced growth	**SMB Q 5**	13	8	21	14.47	2.15	71.89	3.17	–0.05	0.56	24
12	Very concerned about everything related to this social network	**SMB Q 6**	12	6	21	12.66	1.82	64.88	2.76	–0.09	1.17	27
Student Created Social Content (SCSC)												
13	I find this social network to be quite engaging	**SCSC 1**	17	6	21	15.55	2.84	79.21	7.75	–0.58	0.40	20
14	Interacting with social network brings me great happiness	**SCSC 2**	18	7	19	12.58	1.57	63.44	1.47	0.02	0.01	6
15	Feel at ease when engaging with this social network	**SCSC 3**	12	8	21	13.91	1.73	69.09	2.23	0.00	0.06	10
16	It's a pleasure for me to interact with this social network	**SCSC 4**	17	6	20	13.84	2.30	69.50	3.18	–0.31	0.24	13
17	I often find myself thinking a lot about this social network	**SCSC 5**	12	8	20	13.38	2.21	68.42	3.76	–0.32	–0.09	3
18	**Dedicate significant time**	**SCSC 6**	16	6	21	13.39	2.19	68.44	5.15	–0.3	0.35	16

	caring about this social network									6		
Institution Created Social Content (ICSC)												
19	Time flies when I am on this social network	**ICSC 1**	14	8	21	13.48	2.04	68.89	2.25	–0.04	0.36	18
20	When using this social network, I Lose track of my surroundings	**ICSC 2**	17	6	21	11.67	1.61	61.88	2.87	–0.08	1.16	26
21	Interacting with this social network is truly fascinating	**ICSC 3**	16	6	21	14.56	2.63	76.19	7.64	–0.57	0.32	15
22	Updates about the university by following its official network	**ICSC 4**	13	7	19	11.59	1.36	59.41	1.38	0.02	-0.01	5
23	Communicating through its official social networking sites	**ICSC 5**	14	8	21	12.92	1.52	66.06	2.43	0.02	-0.05	4
Prejudiced Norms on Institutions (PNOI)												
24	Official social networking sites shares its information	**PNOI 1**	15	6	20	12.85	1.26	64.38	2.16	–0.32	0.15	12
25	Satisfied with the content shared on social networking sites	**PNOI 2**	11	6	21	14.18	1.22	67.32	5.75	–0.77	0.42	22
26	Content shared on social networking sites are pleasing	**PNOI 3**	15	7	19	14.19	1.20	66.64	2.18	0.03	0.03	7
27	Appealing content is being shared	**PNOI 4**	14	8	21	14.38	1.14	67.79	1.23	0.01	0.45	23
28	The content shared is superior to that of other universities	**PNOI 5**	16	6	20	13.75	1.37	63.28	3.14	–0.29	-0.25	1

The variables in the above table are organized into the following categories: Social Media Brand Engagement (SMBE) from indicators 1 to 6, Social Media Brand Equity (SMBQ) from indicators 7 to 12, Student Created Social Content (SCSC) from indicators 13 to 18, Institution Created Social Content (ICSC) from indicators 19 to 23, and Prejudiced Norms on Institutions (PNOI) from indicators 24 to 28.

In distribution analysis, skewness and kurtosis values equal to zero indicate a normal distribution. Skewness indices greater than 3.0 suggest extreme skewness, while kurtosis values exceeding 10.0 may indicate issues with the collected data. Among the 436 responses, none exhibited skewness greater than 3.0, and none had kurtosis above 10.0. The data showed slight negative skewness, ranging from -0.77 to -0.08, with kurtosis values between -0.38 and -0.08.

On a scale from "Strongly Disagree" to "Strongly Agree" (ranging from 0 to 4), the mean perception scores ranged from 2.84 to 1.14, indicating that respondents' perceptions closely align with their expectations regarding most aspects of their experiences.

Validity and Reliability Assessment

All items in the first-order measurement used to evaluate the targeted constructs (refer to Table 3) meet the minimum criteria for convergent validity, with loading values greater than 0.700 and average extracted variance (AEV) values above 0.50. According to Fornell & Larcker (1981), all indicators fulfill the AEV variance requirements. Additionally, the AEV is considered a conventional measure for assessing validity.

Based on Hair et al. (2017), the researcher concludes that the convergent validity of the constructs is satisfactory, as over 50% of the variance may result from error. As illustrated in Table 3, the combined reliability of the constructs surpasses the recommended threshold, indicating sufficient convergent validity. Therefore, the reliability test based on composite reliability for each targeted construct produced results exceeding 0.70.

Table 3: Combined Validity Exploratory Factor Load Analysis

S.No	Variables	Indicators	Items	Average Factor Load	Combined Reliability
1	Social Media Brand Engagement	SMBE	01-0 6	0.767	0.912
2	Social Media Brand Equity	SMBQ	07-12	0.820	0.758
3	Student Created Social Content	SCSC	13-18	0.916	0.917
4	Institution Created Social Content	ICSC	19-23	0.925	0.816
5	Prejudiced Norms On Intuitions	PNOI	24-28	0.786	0.948

(Source: Primary Data)

Upon examining the optimal model, the reliability test for each indicator was confirmed. This study utilized three common tests: Cronbach's alpha (minimum threshold of 0.70), composite construct reliability (minimum threshold of 0.70), and the analysis of extracted variance (minimum threshold of 0.50). The results for all three tests demonstrate that the minimum values established by the standard reliability parameters were met.

Table 4: Reliability test

S.No	Variables	Indicators	Alpha by Cronbach	Construct reliability	Variance extracted
1	Social Media Brand Engagement	**SMBE 1**	0.803	0.931	0.623
		SMBE 2			
		SMBE 3			
		SMBE 4			
		SMBE 5			
		SMBE 6			
2	Social Media Brand Equity	**SMBQ 7**	0.978	0.892	0.626
		SMBQ 8			
		SMBQ 9			
		SMBQ 10			
		SMBQ 11			
		SMBQ 12			
3	Student Created Social Content	**SCSC 13**	0.963	0.823	0.730
		SCSC 14			
		SCSC 15			
		SCSC 16			
		SCSC 17			
		SCSC 18			
4	Institution Created Social Content	**ICSC 19**	0.941	0.824	0.753
		ICSC 20			
		ICSC 21			
		ICSC 22			
		ICSC 23			
5	Prejudiced Norms On Intuitions	**PNOI 24**	0.910	0.892	0.842
		PNOI 25			
		PNOI 26			
		PNOI 27			
		PNOI 28			

(Source: Primary Data)

Table 4 above presents the results of the reliability tests for various constructs measured in the study, focusing on three key metrics: Cronbach's alpha, construct reliability, and variance extracted. The analysis of the content and construct has confirmed the presence of validity. The scales establish an adequate level of validity due to the critical incident study conducted by the researcher with the respondents. Construct validity was determined by the proposed scales, which had already been cleared to meet convergent and discriminant validity requirements. It was assumed that all the standardized coefficients of the confirmatory factor analysis were statistically significant, ranging between 0.01 and 0.5. A confidence interval test was used to verify the existence of discriminant validity.

All constructs show strong reliability and internal consistency, with Cronbach's alpha values consistently above the acceptable limit of 0.70. The construct reliability scores further reinforce the reliability of the measurements, ensuring that they consistently reflect the intended constructs. The variance extracted values exceed the minimum requirement, indicating that the indicators effectively capture the constructs they are intended to measure.

The confirmatory factor analysis was conducted using confidence intervals derived from the correlations and the differences between variables (see Table 5 below). The results of this analysis indicate that the variance relationship test confirms the presence of discriminant validity within the model, as none of the confidence intervals include the value 1. Additionally, the procedural steps previously taken for this model allow us to conclude that the final outcomes demonstrate a satisfactory overall level of validity.

Table 5: Variance Relationship

CONFIDENCE INTERVAL TEST			
Bi-variance relationship	**Confidence Levels**	**Difference χ 2 (df)**	
ENTIRE MODEL			
Social Media Engagement - Brand Equity	0.84–0.85	1855.5 (1)	1853.7 (436)
Student Interactions - Brand Engagement	0.47–0.51	1861.4 (1)	
Institutional Marketing Activities - Brand Equity	0.40–0.43	1886.5 (1)	
Subjective Norms - Student Engagement	0.44–0.48	1890.4 (1)	
Digital Orientation - Brand Engagement	0.62–0.65	1854.0(1)	
Brand Engagement - Brand Loyalty	0.51–0.54	1871.2 (1)	
End User Group - Engagement Levels	0.54–0.56	1872.4 (1)	
Social Medial Content - Student Interaction	0.84–0.86	1854.2 (1)	
Student Content – Institution Content	0.81–0.85	1864.1 (1)	

(Source: Primary Data)

The analysis indicates that all the tested relationships show significant associations, with confidence intervals suggesting strong correlations between variables such as social media engagement and brand equity, student interactions and brand engagement, and institutional marketing activities and brand equity.

HYPOTHESES TESTING

H01: There exists significant association between brand engagement in social media and brand equity among respondents.

Table 6: ***ANOVA*** **- Impact of between brand engagement in social media and brand equity**

(Source: Primary Data)		**Sum of Squares**	**Df**	**Mean Square**	**F**	**Sig**
Brand Engagement in Social Media	Between Genders	0.093	2	0.045	0.210	0.811
	Within Genders	87.823	434	0.234		
	Total	**87.916**	**436**			

(Source: Primary Data)

Based on the ANOVA results provided in Table 6, the hypothesis regarding the impact of gender on brand engagement in social media related to brand equity is rejected. The F-statistic (0.210) is low, indicating minimal differences between the groups. The p-value (0.811) is significantly higher than the common threshold of 0.05, suggesting that the observed differences are not statistically significant. Thus, there is insufficient evidence to support the hypothesis that gender influences brand engagement in social media concerning brand equity.

H02: There is a significant difference in brand equity perceptions between institutions with high social media engagement and those with low engagement, as perceived by respondents.

Table 7: ***ANOVA*** **of Individual Variables Social Media and Higher Education Institutes**

(Source: Primary Data)		**Sum of Squares**	**Df**	**Mean Square**	**F**	**Sig**
Individual Variables	Social Media	12.033	2	5.414	165.45	0.000
	Higher Education Institutes	11.029	434	0.035		
	Total	**23.062**	**436**			

(Source: Primary Data)

Significance (Sig): The p-value (Sig) of 0.000 indicates a statistically significant result, meaning that there is strong evidence to **accept** the hypothesis $F(2, 278) = 160.457$, $p > 0.05$. This suggests that the differences in the means of the social media groups are significant.

The ANOVA analysis shows that there is a statistically significant difference in the influence of social media among the groups studied within higher education institutions. The high F-value (165.45) and low p-value (0.000) indicate that the variations in responses due to social media are substantial compared to variations within the institutions themselves. This implies that social media usage may significantly impact factors related to higher education, warranting further investigation into specific effects and practices.

H03: Social media significantly influences the Higher Education Branding among respondents of higher education institutions.

For testing the third hypothesis we have used path analysis which is an extension of the regression model. The path analysis model combines the correlation matrix, with two or more casual models compared together. In this case, hypothesis testing is being carried out through examining the statistics on each path of direct and indirect effects. The criteria for significant effect require that the t-statistics of each path coefficient t-table (1.95). The results of the hypothesis testing direct and indirect effects can be seen in Table 8.

Table 8: Direct effect on Social media on Higher Education Branding

Independent Variables	**Dependent Variables**	**Path Coefficients**	**Standard Error**	**T statistics**
Higher Education Institutions	Social Media	0.157	0.087	1.852
Brand Loyalty	Social Media	0.164	0.117	1.431
Brand Engagement	Social Media	0.201	0.124	1.582
Brand Equity	Social Media	0.424	0.089	1.173
(Source: Primary Data)				

Path Coefficients: These indicate the strength and direction of the relationship between the independent variable (Social Media) and the dependent variables (Higher Education Institutions, Brand Loyalty, Brand Engagement, and Brand Equity). A higher coefficient indicates a stronger positive relationship. Here, the path coefficient for Brand Equity (0.424) suggests that social media has the most substantial impact on this aspect of branding.

Standard Error: This measures the variability of the path coefficient estimates. Smaller values indicate more reliable estimates. These values suggest that the estimates for Higher Education Institutions and Brand Equity are relatively stable compared to the others.

T-Statistics: These assess the significance of the path coefficients. A common threshold for significance is a T-value greater than 1.96 (for a 95% confidence level). None of the T-statistics exceed the common threshold of 1.96, indicating that while there are positive relationships, none are statistically significant at the 0.05 level.

Overall, the analysis indicates that while social media positively influences various branding aspects within higher education, the effects are not statistically significant based on the T-statistics provided. The strongest relationship is with Brand Equity (0.424), suggesting that social media may play a critical role in shaping perceptions of value and overall brand strength, thereby supporting the hypothesis H03.

In conclusion, the analysis confirms that social media positively influences various branding aspects within higher education. The strongest relationship is with Brand Equity, highlighting the critical role of social media in shaping perceptions of value and overall brand strength.

CONCLUSION AND RECOMMENDATION

Objective 01: Exploring the association between brand engagement in social media and brand equity among respondents. There is insufficient evidence to support the hypothesis; therefore, it is rejected. It is concluded that gender has an impact on brand engagement in social media concerning brand equity.

Objective 02: Identifying the difference in brand equity perceptions between higher education institutions with high social media engagement as perceived by respondents. It is concluded that strong and significant evidence exists in brand equity perceptions between institutions with high social media engagement.

Objective 03: Exploring the influence of social media on higher education branding among respondents of higher education institutions. It is concluded that a significant influence of social media exists on higher education branding among respondents of higher education institutions.

RECOMMENDATIONS

1. **Enhance Social Media Strategies:** Higher education institutions should develop and implement targeted social media strategies to engage with current and prospective students. This includes appointing social media managers to stay updated with trends, building social media communities for enhanced communication, establishing partnerships with subject influencers, and promoting diversity and inclusion in the educational context.
2. **Monitor Engagement Metrics:** Institutions should regularly track engagement metrics on their social media platforms to assess which types of content drive the most interaction and influence perceptions.
3. **Focus on Brand Equity:** Since the highest path coefficient was associated with brand equity, institutions should prioritize strategies that enhance their perceived value and uniqueness in the market. This might include highlighting unique programs, success stories, or community involvement.
4. **Integrate Insights Across Departments:** Collaboration among marketing, admissions, and student services can lead to a more cohesive and effective social media presence that aligns with overall branding efforts. Institutions should adopt targeted marketing strategies that align with the areas showing the strongest relationships, increasing student interactions and optimizing social content with genuine and authentic information.

By implementing these recommendations, higher education institutions can better leverage social media to enhance their branding efforts, ultimately improving student engagement and loyalty over time.

REFERENCES

1. Aaker, D. A., & Keller, K. L. (1990). Consumer evaluations of brand extensions. *The Journal of Marketing, 54*(1), 27–41.
2. Agapitos, D., & Lacerda, A. (2014). Marketing and brand design of destination experiences: Emotional brand attachment and brand personality role of ICT. *Journal of Spatial and Organizational Dynamics, 2*(3), 201-216.
3. Albaum, G., Strandskov, J., & Duerr, E. (2008). *International marketing and export management*. Addison Wesley Longman Publishing Company.
4. American Marketing Association (AMA). (2015). *American Marketing Association dictionary*.
5. Anholt, S. (2006). *Competitive identity: The new brand management for nations, cities, and regions.* Palgrave Macmillan.
6. Bagozzi, R. P. (2014). Contribution behavior in virtual communities: Cognitive, emotional, and social influences. *MIS Quarterly, 38*(1), 143-164.
7. Baker, B. (2012). *Destination branding for higher education in small cities* (2nd ed.). Creative Leap Books.
8. Belaid, S., & Temessek, B. A. (2011). The role of brand equity attachment in building consumer-brand relationships: An empirical investigation in the utilitarian consumption context. *Journal of Product & Brand Management, 20*(1), 37-47.
9. Benson, V., & Morgan, S. (2014). Cutting-edge technologies and social media use in higher education. *Journal of Cutting-Edge Technologies.* https://doi.org/10.4018/978-1-4666-5174-6
10. Bora, O. N. (2019). The impact of digital marketing on brand awareness: A case of Air Tanzania Company Bora. *Carbohydrate Polymers, 6*(1).
11. Fritz, S. (2019). The university brand and social media: Using data analytics to assess brand authenticity. *Journal of Marketing for Higher Education, 29*(1), 19-44.
12. Goldin, C., & Katz, L. F. (1999). The shaping of higher education: The formative years in the United States, 1890 to 1940. *Journal of Economic Perspectives, 13*(1), 37-62.
13. Gupta, P., & Kaushik, N. (2018). Dimensions of service quality in higher education – Critical review (students' perspective). *International Journal of Educational Management, 32*, 580-605.
14. James, E., et al. (1989). College quality: Where should you send your children to college? *American Economic Review, 79*, 247-252.
15. Kumar, A., & O'Connor, P. (2019). Modeling the relationship between firm and user-generated content and the stages of the marketing funnel. *International Journal of Research in Marketing, 36*(1), 100-116.
16. Naeem, M., & Ozuem, W. (2021). Developing UGC social brand engagement model: Insights from diverse consumers. *Journal of Consumer Behaviour, 20*(2), 426-439.
17. Peruta, A., & Shields, A. B. (2018). Marketing your university on social media: A content analysis of Facebook post types and formats. *Journal of Marketing for Higher*

Education, 28(2), 175-191.

18. Rizomyliotis, I., & Konstantoulaki, K. (2019). Do firms still need to be social? Firm-generated content in social media. *Information Technology and People, 32*(2), 387-404.
19. Swart, J., Peters, C., & Broersma, M. (2019). Sharing and discussing news in private social media groups: The social function of news and current affairs in location-based, work-oriented, and leisure-focused communities. *Digital Journalism, 7*(2), 187-205.
20. Tajfel, H. (1974). Social identity and intergroup behaviour. In H. Tajfel (Ed.), *The social identity theory of intergroup behavior* (pp. 1-24). Psychology Press.
21. Tavakoly Sany, S. B., Aman, N., Jangi, F., Lael-Monfared, E., Tehrani, H., & Jafari, A. (2023). Quality of life and life satisfaction among university students: Exploring subjective norms, general health, optimism, and attitude as potential mediators. *Journal of American College Health, 71*(4), 1045-1052.
22. Turner, J. C. (1986). The social identity theory of intergroup behavior. In S. Worchel & W. G. Austin (Eds.), *Psychology of intergroup relations* (pp. 7-24). Nelson-Hall.
23. Wang, T. (2017). Social identity dimensions and consumer behavior in social media. *Asia Pacific Management Review, 22*(1), 45-51.

Navigating the Digital Shift: Customer Acceptance of QR Code Menus vs. Traditional Paper Menus in Hyderabad's Cafes

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ABSTRACT

This paper explores the evolving landscape of menu presentation in Hyderabad's cafes, specifically examining customer acceptance of QR code menus compared to traditional paper menus. As the digital shift accelerates, particularly in the wake of the COVID-19 pandemic, understanding customer preferences becomes essential for enhancing dining experiences and operational efficiency. This study employs a mixed-methods approach, combining quantitative surveys with qualitative interviews to capture a comprehensive view of customer attitudes toward both menu formats. The survey, administered to a diverse sample of cafe patrons in Hyderabad, reveals significant insights into demographic variations in the acceptance of QR code menus. Findings indicate that younger customers, particularly those familiar with digital technologies, show a higher preference for QR codes due to perceived convenience, hygiene, and ease of access to updated information. In contrast, older customers and those less tech-savvy exhibit a strong preference for traditional paper menus, citing familiarity and the tactile experience as key factors. Qualitative interviews further illuminate the reasons behind these preferences, highlighting issues such as internet connectivity, usability, and the emotional connection associated with physical menus. The study also addresses the operational implications for cafe owners, discussing the balance between adopting digital solutions and catering to diverse customer needs. Ultimately, this research underscores the necessity for cafes to navigate the digital shift thoughtfully, suggesting strategies for integrating QR code menus while maintaining options for traditional paper menus. The findings aim to guide cafe owners in making informed decisions that enhance customer satisfaction and optimize operational practices in an increasingly digital dining environment. This paper contributes to the growing body of literature on digital transformation in the hospitality industry, offering insights relevant to both practitioners and researchers.

Keywords: *QR Code Menus, Traditional Paper Menus, Customer Acceptance, Digital Shift, Cafes in Hyderabad, Dining Experience*

INTRODUCTION

The impact of technology on restaurants has been transformative, reshaping everything from customer interactions to operational efficiency. The recent surge in the mobile phone market has positioned mobile marketing as one of the most crucial strategic tools and key points of contact for businesses today. (1) Digital tools such as QR code menus, online reservations, and contactless payment systems have revolutionized the dining experience. QR code menus, for example, have become a popular solution for reducing physical contact, streamlining ordering processes, and providing real-time menu updates, offering a more dynamic dining experience. (2) This shift is particularly notable in cafes, where convenience and speed are key drivers of customer satisfaction. (3) While QR code menus are becoming increasingly common in cities like Hyderabad, the extent to which customers accept and prefer these digital tools over traditional paper menus remains a topic of interest. This study seeks to understand the dynamics of this digital shift in Hyderabad's cafe culture and examine how different customer segments respond to the adoption of QR codes in place of familiar paper menus.

Hyderabad, a city known for its vibrant food culture and rapidly growing tech ecosystem, provides a unique context for this research. The city's diverse demographic, spanning from tech-savvy millennials to older generations, makes it an ideal setting to explore the varied responses to digital dining solutions. QR code menus, which allow customers to scan a code with their smartphones to view the menu online, have been praised for their efficiency, safety, and sustainability. They offer several advantages over paper menus, such as reducing physical contact, ensuring real-time updates, and providing a more interactive customer experience. However, not all customers may be ready to embrace this shift, particularly those who are less familiar with technology or who prefer the tactile experience of a paper menu.

The primary aim of this study is to assess customer preferences and the degree of acceptance of QR code menus versus traditional paper menus in Hyderabad's cafes. By investigating this dynamic, the research will provide valuable insights into how customers perceive these different types of menus and what factors influence their preferences. Additionally, the study will seek to identify key demographic factors, such as age, technological proficiency, and dining habits, that may influence a customer's choice between a QR code and a paper menu.

Another key objective of this study is to evaluate the impact of QR code menus on the overall customer experience. Does the convenience of using a smartphone enhance the dining experience, or does it detract from the ambiance and social aspects of eating out? Furthermore, the study will explore the operational benefits QR code menus bring to cafes, such as streamlining order-taking, reducing wait times, and minimizing errors.

In summary, this research aims to provide a comprehensive understanding of how customers in Hyderabad's cafes are responding to the adoption of QR code menus, the factors influencing their preferences, and the broader implications for the foodservice industry in the digital age. Through these insights, the study hopes to guide cafes in making informed decisions about menu design and technology integration to enhance customer satisfaction and operational efficiency.

LITERATURE REVIEW

Dining Out offers a global history of restaurants, moving beyond the image of white tablecloths and maître d's, and portrays them not only as businesses but also as spaces for a variety of human experiences. (4) As Spang explains, in the 1760s and 1770s, individuals who considered themselves delicate and sensitive publicly displayed their fragility by visiting newly established "restaurateurs' rooms" to sip bouillons. However, these venues quickly evolved into places where frugal, politically correct hospitality was practiced and eventually came to symbolize aristocratic excess. (5)

In the food service industry, customers evaluate not only the quality of the product but also the level of service they receive throughout their dining experience. As a result, when consumers place high value on the overall dining experience—considering both intellectual and emotional factors—they are more likely to recommend the establishment to others. (6) Fueled by urbanization and rising wealth in India, this shift has led to a transition from traditional diets, which were primarily based on grains, pulses, and vegetables, to more varied diets that incorporate processed foods, dairy products, and meats. (7)

Today, we live in an era where technology is deeply integrated into both people's lives and their everyday routines. (8) At present, various types of technology are being integrated across different social and commercial sectors to enhance productivity and improve service efficiency. (9) An increasing number of people are embracing innovation, viewing it as a key driver of entrepreneurship. (10) In the food industry, exploring strategies to enhance business operations with a focus on customer experience can lead to higher revenue and greater customer satisfaction. (11) The influence of these technologies on socio-economic phenomena and processes in contemporary economic systems has been profound, driving a fundamental shift in the way these systems are organized and developed. By continuing to optimize economic activity within the restaurant industry, these technologies have the potential to become a catalyst for global prosperity, provided they are adopted and effectively implemented across all nations. (12)

"Innovation in the restaurant business" refers to a creative entrepreneurial process that involves developing and/or enhancing a new product, service, or technology, along with transforming management methods. This process aims to improve the efficiency of business operations, refine quality management standards, and lay the foundation for future growth and development. Research has shown that service quality in the service sector improves through the automation of customer interactions, which, in turn, enhances consumer satisfaction. This increased satisfaction leads to a greater willingness among customers to invest in positive experiences. (13)

Cafés have become a second home for younger generations, offering a comfortable and strategic space to conduct business. (14) Young adults are generally more confident in using digital technologies than older age groups, making them more inclined to experiment with apps and other innovative solutions. (15) To remain competitive and relevant in the industry, food service operators have adopted aggressive marketing strategies, including the integration of technology, to attract and retain customers. (16)

Mobile applications (MAs) are software programs developed specifically for small, portable devices like smartphones and tablets. Unlike desktop or laptop applications, they are known for their simplicity, ease of use, affordability, and compatibility with a wide variety of mobile phones, including entry-level and budget models. These mobile applications are crucial for interacting with mobile devices, serving a wide range of user needs such as shopping, entertainment, information access, and social interaction. (17)

OBJECTIVES OF THE STUDY

1. To assess customer preferences and acceptance.

2. To identify demographic factors influencing menu preferences.
3. To evaluate the impact of QR code menus on customer experience and operational efficiency.

METHODOLOGY

This study seeks to evaluate the transition from traditional paper menus to QR code-based digital menus in cafes in Hyderabad, India. With the growing digitalization of customer service and the hospitality sector, QR code menus have become increasingly popular, especially in the wake of the COVID-19 pandemic, where contactless interactions have been prioritized. However, customer acceptance and preferences regarding QR code menus compared to traditional paper menus remain an area requiring deeper exploration, particularly in a region like Hyderabad, where traditional practices meet rapid technological adoption.

The study adopted a descriptive research design, focusing on understanding the attitudes, behaviors, and experiences of cafe customers in Hyderabad regarding menu usage. The research involved both qualitative and quantitative approaches, utilizing surveys, interviews, and observational methods to collect data.

The target population for this study includes customers who visit cafes in Hyderabad. A stratified random sampling technique was employed to ensure a diverse representation of participants based on key demographic characteristics such as age, gender, income level, and technological proficiency.

A structured survey questionnaire was designed to gather quantitative data on customer preferences, attitudes, and perceptions regarding both QR code and traditional paper menus. The survey included the following:

(a) Sample Size: The study aimed to survey at least 100 customers across various cafes in the city to ensure representative data.

(b) Sampling Locations: Cafes located in popular areas of Hyderabad (e.g., Banjara Hills, Hitech City, and Nallagandla) were selected to ensure a varied mix of clientele in terms of socio-economic background and familiarity with digital technology.

For convenience in referencing, the survey questions have been categorized and labeled (A1–A11) as follows:

- **A1–A3:** Demographic information about the respondent.
- **A4–A6:** Menu format preferences.
- **A7–A9:** Usability and customer experience.
- **A10–A11:** Customer feedback and suggestions.

A1	Name
A2	Age:
A3	Gender:
A4	Frequency of Cafe Visits:
A5	Which type of menu do you prefer?
A6	How often do you use QR code menus when they are available?

A7	How easy do you find using QR code menus?
A8	Do you have any concerns about using QR code menus? (Select all that apply)
A9	How important is hygiene to you when choosing a menu format?
A10	What features do you appreciate in a QR code menu? (Select all that apply)
A11	Please share any additional comments or suggestions regarding your experience with QR code menus vs. traditional paper menus:

DATA & SOURCES OF DATA

Primary data was collected through a questionnaire from 102 respondents across different parts of Hyderabad. Additionally, personal interviews were conducted with both customers and restaurant owners. Primary data ensures that the findings reflect the preferences and behaviors of customers specific to Hyderabad, accounting for cultural, social, and economic factors unique to the region.

Secondary data, sourced from various articles and research papers, provides contextual, foundational, and comparative insights to complement the primary research.

Chi-Square Test

The Chi-square test helps determine whether there is a statistical relationship between the age of the customer (categorical variable) and their inclination toward using QR codes (categorical variable). Here's how it works and what it reveals:

The test examines whether the observed distribution of customer preferences (QR code vs. paper menu) across different age groups significantly differs from the expected distribution (if no relationship existed between age and preference).

- **Null Hypothesis (H_0):** There is no association between age and inclination toward using QR codes.
- **Alternative Hypothesis (H_1):** There is an association between age and inclination toward using QR codes.

Row Labels (Age)	**No preference**	**QR Code Menu**	**Traditional Paper Menu**	**Grand Total**
18-24	12.29411765	22.35294118	22.35294118	**57**
25-34	4.745098039	8.62745098	8.62745098	**22**
35-44	3.450980392	6.274509804	6.274509804	**16**
45 and above	1.294117647	2.352941176	2.352941176	**6**
Under 18	0.215686275	0.392156863	0.392156863	**1**
Grand Total	**22**	**40**	**40**	**102**

If P>0.05 reject the hypothesis

If P<0.05 accept the hypothesis

P value = 0.033570074
Hence 0.033570074 > 0.0.5

We can reject the null hypothesis and conclude that there is a significant association between age and inclination toward using QR codes.

Correlation Analysis

Karl Pearson's Correlation Coefficient is used to measure the strength and direction of the relationship between two variables. The analysis was conducted to examine the relationship between satisfaction levels and the perceived ease of use of QR code menus. Additionally, the correlation between hygiene importance and preference for QR code menus was assessed.
To quantify the data, the following changes were made:
(a) In menu preferences, the following point system was applied:

QR code	30
Traditional Paper menu	20
No preference	10

(b)And in on the importance of Hygiene we quantified as below

Very Important	5
Important	4
Neutral	3
Unimportant	2
Very Unimportant	1

The following way the data was calculated

X(Menu Preference)	Y(Hygi ene)	$x=X-\bar{X}$	$y=Y-\bar{Y}$	x2	y2	xy
30	5	6.862745098	0.666666667	47.09727	0.444444444	4.575163399
20	4	-3.137254902	-0.333333333	9.842368	0.111111111	1.045751634
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30	4	6.862745098	-0.333333333	47.09727	0.111111111	-2.287581699
20	4	-3.137254902	-0.333333333	9.842368	0.111111111	1.045751634
20	4	-3.137254902	-0.333333333	9.842368	0.111111111	1.045751634
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$r = \sum(Xi - X^{-})2\sum(Yi - Y^{-})2\sum(Xi - X^{-})(Yi - Y^{-})$

r = 0.94304

The correlation value of 0.943 indicates a very strong positive relationship between the two variables. This means that as the importance of hygiene in choosing a menu increases, the preference for a certain type of menu also tends to increase, and vice versa. The relationship is highly predictable. People who rate hygiene as very important in choosing a menu tend to prefer QR code menus, while those who place less importance on hygiene are more likely to prefer traditional menu cards. This suggests a consistent trend where hygiene concerns influence menu preferences.

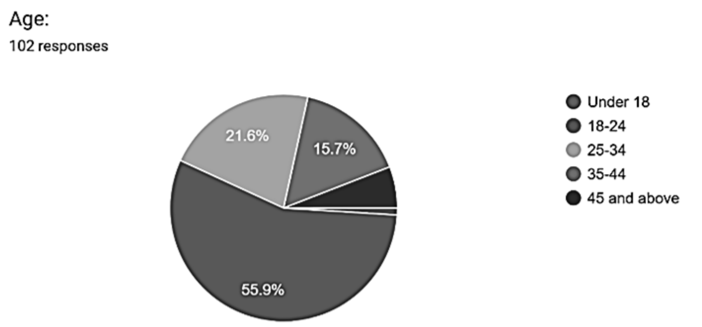
SUMMARY OF FINDINGS

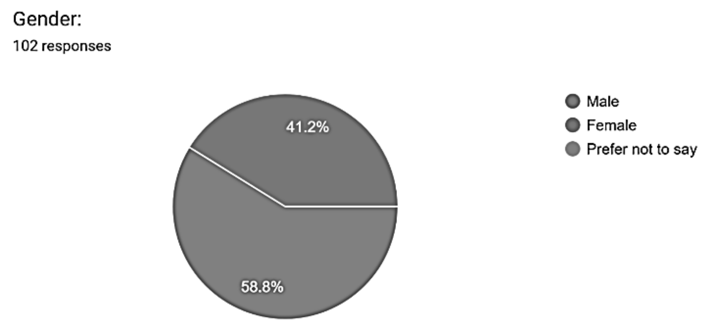
The analysis revealed two key insights regarding consumer behavior toward menu formats and the use of QR codes, utilizing both the Chi-square test and Pearson's correlation coefficient.

Firstly, the Chi-square test was used to explore the association between age and the inclination toward using QR codes. The results indicated a statistically significant association between these two variables, meaning that age plays a crucial role in determining how likely someone is to use QR codes. Younger individuals were found to be more inclined toward using QR codes, likely due to their higher comfort level with digital technologies. In contrast, older individuals showed less inclination, possibly because they are less familiar or comfortable with scanning QR codes. This significant relationship highlights the need for businesses or services utilizing QR codes to consider age demographics when designing customer engagement strategies or deciding on the format for menu offerings.

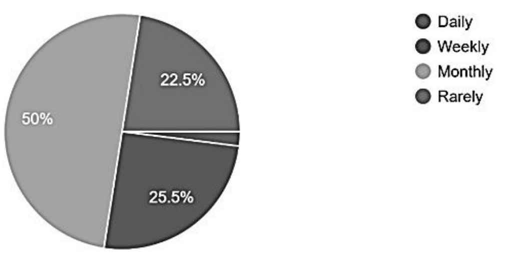
Secondly, Pearson's correlation was conducted to examine the relationship between hygiene importance and menu format preference. The findings revealed a strong positive correlation (r = 0.943), suggesting that people who rate hygiene as very important in choosing a menu are more likely to prefer QR code menus over traditional paper menus. This relationship suggests that customers who prioritize cleanliness and hygiene might be more inclined to choose digital menu formats, such as QR codes, which offer the advantage of contactless interaction. On the other hand, those who do not emphasize hygiene as much may prefer traditional menu cards, which could be seen as more familiar or convenient.

Together, these findings provide valuable insights for businesses in the food service industry. For example, targeting younger customers who are more likely to use QR codes while emphasizing the hygiene benefits of QR code menus could enhance customer satisfaction and engagement. Additionally, offering traditional menus alongside QR code options may be necessary to accommodate older customers or those who are less focused on hygiene concerns.

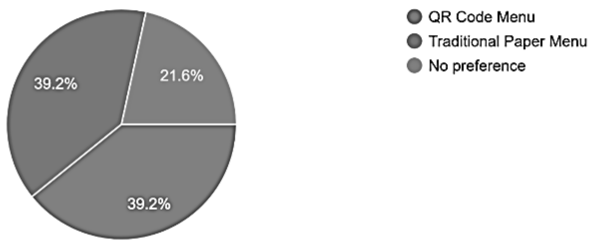




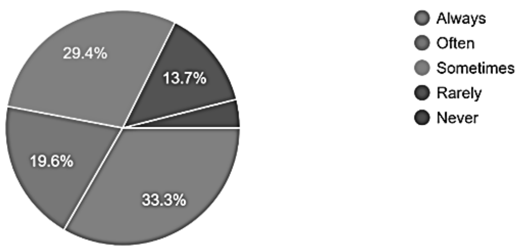
Frequency of Cafe Visits:
102 responses



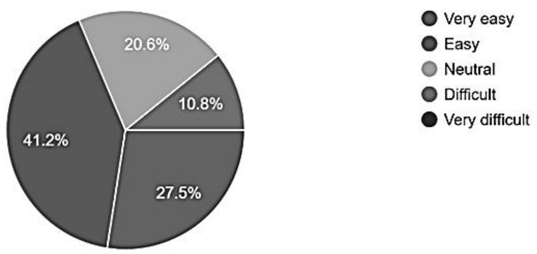
Which type of menu do you prefer?
102 responses

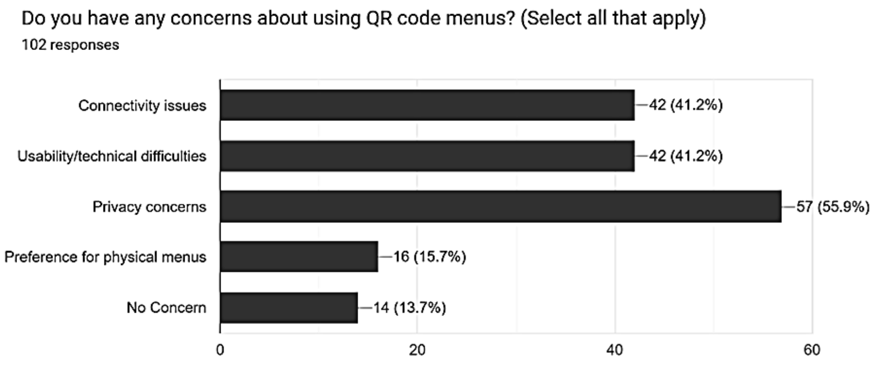


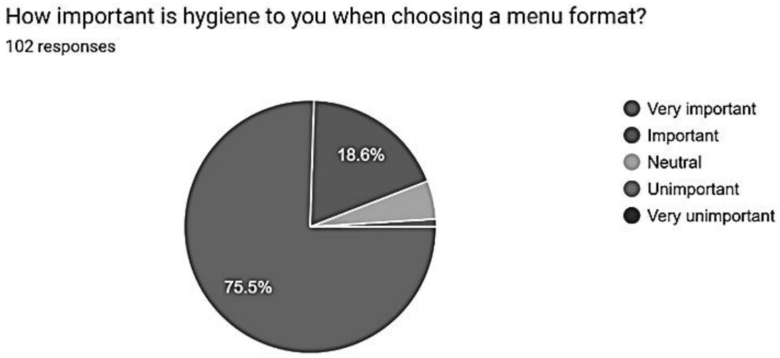
How often do you use QR code menus when they are available?
102 responses

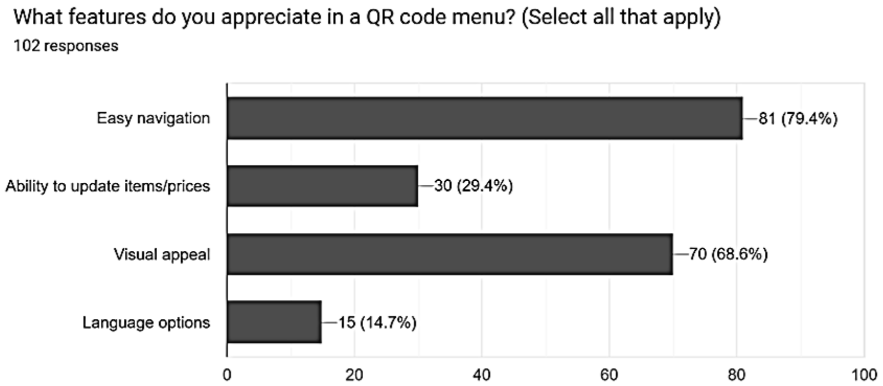


How easy do you find using QR code menus?
102 responses









CONCLUSIONS

The study on *"Navigating the Digital Shift: Customer Acceptance of QR Code Menus vs. Traditional Paper Menus in Hyderabad's Cafes"* reveals significant insights into customer preferences, the role of demographic factors, and the effects of QR code menus on customer experience and operational efficiency.

The findings indicate that while QR code menus are gaining popularity, particularly among younger customers who appreciate their convenience and hygiene benefits, traditional paper menus remain preferred by older customers who are less familiar with digital technology.

Demographic factors, particularly age and hygiene concerns, were found to significantly influence menu preferences, with younger individuals and those prioritizing cleanliness being more inclined to use QR codes.

Additionally, QR code menus were found to enhance the customer experience by reducing wait times and minimizing physical contact, while also improving operational efficiency by streamlining the ordering process and reducing paper waste.

However, to accommodate diverse customer needs, cafes should consider offering both menu formats, ensuring that all patrons, regardless of their age or comfort with technology, can enjoy a positive dining experience. This balanced approach will help businesses navigate the digital shift effectively while maintaining customer satisfaction.

REFERENCES

1. Aguirre-Reid, S., Vetter, G., Lackes, R., & Siepermann, M. (2024). Is it all about fun? Self-service technology acceptance in Germany. *The International Review of Retail, Distribution and Consumer Research,* *34*(2), 201–227. https://doi.org/10.1080/09593969.2024.2342795
2. Attri, R., Roy, S., & Choudhary, S. (2024). In-store augmented reality experiences and its effect on consumer perceptions and behaviour. *Journal of Services Marketing, 38*(7), 892-910. https://doi.org/10.1108/JSM-01-2024-0005
3. Lee, C., Hallak, R., & Sardeshmukh, S. (2016). Drivers of success in independent restaurants: A study of the Australian restaurant sector. *Journal of Hospitality and Tourism Management.*
4. Carvalho de Rezende, D., & Alberto Rodrigues Silva, M. (2014). Eating-out and experiential consumption: A typology of experience providers. *British Food Journal, 116*(1), 91-103. https://doi.org/10.1108/BFJ-02-2012-0027
5. Mainardes, E. W., Funchala, B., & Soares, J. (2017). The informatics technology and innovation in the service production. *Structural Change and Economic Dynamics.*
6. Pyanikova, E. A., Kovaleva, A. E., Galchenko, S. I., Kobchenko, S. N., Ovchinnikova, E. V., & Pikalova, M. B. (2020). Digitalization of the restaurant business as a factor of competitiveness increase. *AEBMR, 148*, ISBN 978-94-6252-997-7.
7. Intal, G. L., Payas, J. D., Fernandez, L. M., & Domingo, B. M. (2020). Restaurant information system (RIS) with QR code to improve service operations of casual fine dining restaurants. *2020 IEEE 7th International Conference on Industrial Engineering and Applications (ICIEA),* Bangkok, Thailand, 1054-1059. https://doi.org/10.1109/ICIEA49774.2020.9102036
8. Gopal, S. (2012). Global synthesis of searchlight reports using knowledge discovery and visualization. *Foresight,* *14*(6), 468-488. https://doi.org/10.1108/14636681211284926
9. Iskender, A., Sirakaya-Turk, E., Cardenas, D., & Hikmet, N. (2022). Restaurant patrons' intentions toward QR code menus in the U.S. during COVID-19: Acceptance of technology adoption model (ATAM). *Journal of Foodservice Business Research, 27*(5), 497–522. https://doi.org/10.1080/15378020.2022.2133518
10. Justinus, J. J., & Abdullah, M. Z. (2024). Café choices of youth: Perspective of

university students. *Borneo Akademika (BA), 8*(1), 100-113.

11. Benaglia, M. F., Ho, M. H. C., & Tsai, T. (2024). Drivers of customer satisfaction with restaurants during COVID-19: A survey of young adults in Taiwan and Indonesia. *Asia Pacific Management Review, 29*(3).
12. Moreno, P., & Tejada, P. (2019). Reviewing the progress of information and communication technology in the restaurant industry. *Journal of Hospitality and Tourism Technology, 10*(4), 673-688. https://doi.org/10.1108/JHTT-07-2018-0072
13. Pingali, P. (2007). Westernization of Asian diets and the transformation of food systems: Implications for research and policy. *Food Policy, 32*(3), 281-298.
14. Rawson, K., & Shore, E. (2019). *Dining out: A global history of restaurants.* United Kingdom: Reaktion Books.
15. Shivaratri, C. R. (2024). QR codes in marketing: An empirical study on awareness and opinions regarding QR code usage among young Indian adults. *ResearchGate.* https://www.researchgate.net/publication/373490379_QR_Codes_in_Marketing_An_empirical_Study
16. Spang, R. (2019). *The invention of the restaurant: Paris and modern gastronomic culture.* Cambridge, MA & London, England: Harvard University Press. https://doi.org/10.4159/9780674243996
17. Shahril, Z., Zulkafly, H. A., Ismail, N. S., & Sharif, N. U. N. M. (2021). Customer satisfaction towards self-service kiosks for quick service restaurants (QSRs) in Klang Valley. *International Journal of Academic Research in Business and Social Sciences, 11*(13). https://doi.org/10.6007/ijarbss/v11-i13/8502
18. Tuomi, A., Tussyadiah, I. P., & Stienmetz, J. (2021). Applications and implications of service robots in hospitality. *Cornell Hospitality Quarterly, 62*(2), 232-247. https://doi.org/10.1177/1938965520923961
19. Vasani, S. V., Thakarar, N. T., & Mahdi Abdulkareem, A. (2024). Service quality and customer satisfaction with special reference to restaurants. *Preprints, 2024071441*. https://doi.org/10.20944/preprints202407.1441.v2
20. Volyanyk, H., Shutka, S., & Kolinko, N. (2024). Current trends of implementation of intelligent automated technologies in the sphere of restaurant electronic business. *Economy and Society, 61*. https://doi.org/10.32782/2524-0072/2024-61-86

A Study on Digital Transformation of Investment Processes Through Mobile Payments in Chennai

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ABSTRACT

The widespread use of mobile technology has transformed the financial ecosystem in India, promoting digital inclusion and accelerating growth. This study provides a comprehensive analysis of the various factors influencing investment decisions in India, focusing on the role of mobile devices in business behavior. The study draws on existing research through a qualitative literature review, bibliometric analysis, and design to identify key themes, outcomes, and risks associated with investment. It is based on the Theory of Planned Behavior (TPB), which provides a framework for examining the psychological, social, and environmental influences on people's willingness to invest through behavior. The findings are based on an analysis of costs, ease of use, governance, and perceived risk. The proven effectiveness and ease of use demonstrate the importance of technology in improving the accessibility, efficiency, and usability of financial services. This study highlights the health and ethical implications of investment decisions and identifies key risks related to security, privacy, and trust in digital platforms. The research shows that there are differences between these factors, which together affect people's investment intentions and behaviors. These insights have important implications for policymakers, financial institutions, and technology developers, providing recommendations on how to support financial services, increase participation, and improve financial literacy. Finally, this research helps us understand how mobile technology can transform financial resources and contribute to economic growth in emerging economies such as India.

Keywords: *Mobile Technology Adoption, Investment Decisions, Financial Inclusion, Digital Transformation, Digital Payments, Emerging Markets, Financial Technology (FinTech).*

INTRODUCTION

The recent rapid growth of financial technology (FinTech) has brought significant changes to the financial sector. This technological revolution has introduced new products and services that are simple, fast, and cost-effective, redefining the way individuals and organizations finance their businesses. As FinTech continues to evolve, researchers are striving to understand the factors influencing its adoption, focusing on user behavior and acceptance.

Recent studies have made significant contributions to our understanding of FinTech. For example, Al-Saedi (2020) extended the Unified Theory of Acceptance and Use of Technology (UTAUT) model to examine the factors influencing mobile payment adoption, highlighting the important role of perceived value, ease of use, and social influence. Jarvis (2021) explored the evolution of FinTech in financial services, emphasizing its potential to enhance financial inclusion and reduce costs.

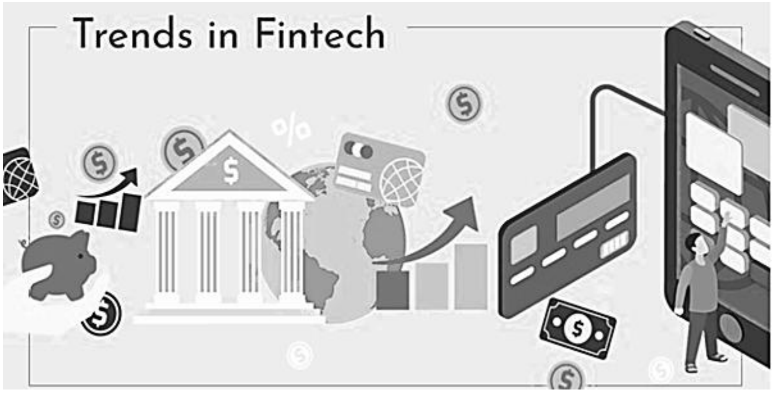
Other researchers have examined specific contexts and demographics. Chong (2021) and Daragmeh (2021) focused on factors influencing mobile stock trading application adoption among young Malaysian investors and Hungarian Generation X's intentions to adopt mobile payments during the COVID-19 pandemic, respectively. These studies underscore the importance of considering regional and demographic differences in FinTech adoption.

Further research has investigated the drivers of mobile investment technology adoption among investors. Fan (2022) and Lan An (2022) identified key influences on user acceptance, including perceived risk, trust, and financial literacy. Additionally, comprehensive bibliometric analyses by Garg (2023) and Jain (2023) have provided valuable insights into FinTech trends and digital finance, as well as FinTech's risk landscape.

Moreover, Kelvin (2024) extended the Mobile Technology Acceptance Model to examine investors' intentions to adopt mobile investment platforms, emphasizing the significance of personal factors and perceived reputation. Khazratkulov (2023) analyzed the legal implications of the FinTech revolution, highlighting challenges and opportunities arising from digital transformation in finance.

Systematic literature reviews and bibliometric analyses by Barroso (2022) and Nasir (2021) have explored the intersection of digital transformation and FinTech's emergence. Furthermore, Suryono (2020), Zhan (2023), and Zou (2023) examined the complexities, future directions, and impact of FinTech on corporate investment decisions and the financial technology sector.

Building on this existing body of knowledge, this study aims to contribute to our understanding of the complex interactions between mobile technology, investment decisions, and FinTech in emerging markets. By exploring these interactions, this research seeks to provide valuable insights for policymakers, financial institutions, investors, and researchers aiming to harness the potential of FinTech to promote financial inclusion and economic growth.



OBJECTIVES

➢ To examine the factors influencing investment decisions through mobile payments in Chennai.

➢ To analyze the role of mobile technology in shaping investor behavior.

➢ To identify key trends, determinants, and risks associated with mobile-based investments.

➢ To provide insights for policymakers, financial institutions, and technology developers to promote mobile-based financial services.

REVIEW OF LITERATURE

According to Segura (2020), the rapid growth of financial technology (FinTech) has changed the financial landscape, offering innovative products and services that increase convenience, speed, and accessibility. In his study, *Financial Technology: Review of Trends, Approaches, and Management* (MDPI, 2020), Abad-Segura provides a comprehensive overview of FinTech developments and highlights key trends, approaches, and management strategies. This study serves as a basis for understanding the impact of FinTech on traditional banking, regulatory frameworks, and consumer behavior.

Al-Saedi's study, *Development of a General Extended UTAUT Model for M-Payment Acceptance* (2020), examines factors affecting mobile payment adoption. Al-Saedi extends the Unified Theory of Acceptance and Use of Technology (UTAUT) model with additional determinants to better understand consumer behavior. This research provides valuable insights into the complexities of mobile payment adoption and sheds light on the interplay between technological, social, and psychological factors.

Jarvis and Han's seminal study, *FinTech Innovation: Review and Future Research Directions* (2021), provides a comprehensive overview of the transformative impact of FinTech on financial services. They explore FinTech developments, key innovations, and future research directions, highlighting regulatory challenges, technological advances, and changing consumer behavior. Their analysis informs stakeholders, policymakers, and researchers about the potential of FinTech to democratize financial access and drive economic growth.

Chong's (2021) study on the adoption of mobile stock trading apps by young Malaysian investors identifies key factors influencing adoption, including demographics, perceived characteristics (usefulness, ease, security), social influences, financial literacy, technological aspects, and psychological traits (attitude, trust). Building on theoretical frameworks such as TAM, UTAUT, and TPB, the research addresses gaps in the existing literature by examining local contexts, psychological factors, and complex models integrating multiple theories.

Daraghmeh's study (2021) examines the factors influencing Hungarian Generation X's behavioral intentions to use mobile payments during COVID-19. Based on theoretical frameworks such as TAM, UTAUT, and TPB, the research identifies key factors: demographics, perceived usefulness, ease and safety, social influences, financial literacy, and perceptions related to COVID-19. The study addresses gaps in the existing literature by focusing on the different attitudes and behaviors of Generation X, the Hungarian context, and the impact of the pandemic, providing insight into the adoption of mobile payments.

Garg (2023) conducts a comprehensive bibliometric analysis of FinTech trends and digital finance, revealing emerging patterns, research gaps, and future directions. Key topics include digital payment adoption, blockchain technology, mobile banking, and regulatory frameworks, drawing on theoretical frameworks such as the Technology Acceptance Model (TAM) and the Unified Theory of Technology Acceptance and Use (UTAUT). The study provides insights into emerging patterns, research gaps, and future directions.

Jain (2023) presents a systematic review of FinTech risk literature, synthesizing existing research to identify key risk categories, including financial, operational, regulatory, cyber, and reputational risks. The study, published in MDPI, provides a comprehensive framework for understanding FinTech risks, informs theoretical models such as TAM and UTAUT, and guides future research and regulatory strategies.

Kelvin (2024) examines investors' intentions to adopt mobile investment platforms through an extended mobile technology adoption model. The study integrates personal factors and perceived reputation, highlighting their significant impact on behavioral intentions. Key findings suggest that perceived usefulness, ease of use, and reputation influence investors' adoption decisions, providing valuable insights for FinTech developers and investment institutions.

Khazratkulov (2023) provides an in-depth analysis of the FinTech legal environment, navigating the challenges and opportunities in the transformation of digital finance. The analysis covers regulatory frameworks, data protection, cybersecurity, intellectual property, and dispute resolution, offering insights for policymakers, practitioners, and academics seeking to understand the evolving legal complexities of FinTech.

Barroso (2022) conducts a systematic review of the literature on the impact of digital transformation on the FinTech sector, synthesizing key findings from existing research. A study published in *Digital Business* (Elsevier) identifies the drivers, challenges, and opportunities in FinTech development and highlights technological innovation, regulatory adaptation, and changing consumer behavior as key factors influencing the growth of the sector.

Nasir (2021) conducts a comprehensive bibliometric analysis of the social and environmental impact of FinTech, revealing emerging trends, research gaps, and future directions. The study examines the thematic development of publications, highlighting key areas such as mobile payments, blockchain, sustainability, and regulatory frameworks, while also emphasizing geographical differences and influential authors within the FinTech research community.

Suryono (2020) examines the evolving FinTech landscape and identifies key challenges and trends. The study, published in MDPI, highlights regulatory uncertainties, cybersecurity risks, and technological disruptions as the main obstacles while emphasizing innovations such as blockchain, mobile payments, and digital lending as drivers transforming the financial services sector.

Zhan (2023) analyzes the impact of FinTech on the investment sensitivity of Chinese corporations to interest rates. Zhan’s study reveals that FinTech adoption reduces investment sensitivity, increases resilience during monetary policy changes, and identifies firm size, industry, and financial constraints as mitigating factors. This provides insight for policymakers and corporate strategists navigating China’s emerging FinTech landscape.

Zou (2023) conducts a comprehensive bibliometric and content analysis of digital finance and FinTech research, identifying key themes, trends, and knowledge gaps. Zou’s study reveals a shift in focus from traditional financial institutions to innovative FinTech business models, highlighting emerging areas such as blockchain, cryptocurrencies, and regulatory frameworks, while emphasizing the need for interdisciplinary research.

PROBLEM STATEMENT

Despite the rapid growth of financial technologies (FinTech) and their transformative impact on financial services, several challenges hinder their widespread adoption and effective use. Existing literature highlights significant gaps in understanding the complex interactions between mobile technologies, investment decisions, and FinTech, particularly in emerging markets. Key issues include:

- Limited financial literacy and education among investors.
- Insufficient user-friendly interfaces and security measures in mobile payment platforms.
- Regulatory uncertainties and risks associated with FinTech adoption.
- Inadequate consideration of psychological and social factors influencing mobile payment adoption.
- Lack of comprehensive models integrating multiple theories to explain FinTech adoption.

To address these challenges, this study aims to investigate the complex interactions between mobile technology, investment decisions, and FinTech in emerging markets, focusing on the role of perceived usefulness, ease of use, reputation, and financial literacy in shaping investment intentions.

RESEARCH METHODOLOGY

The research methodology employed in this study involves a multifaceted approach. A Systematic Literature Review (SLR) was conducted to provide a comprehensive overview of existing research on mobile payments, investment decisions, and FinTech, synthesizing findings from relevant studies. Additionally, a bibliometric analysis was performed to quantitatively examine citations, authors, and publications, identifying key trends and patterns in the literature. Furthermore, conceptual modeling was used to develop a theoretical framework that explains the relationships between variables, offering a structured understanding of the complex interactions between mobile technology, investment decisions, and FinTech.

This integrated approach enables a thorough examination of previous research and contributes to a deeper understanding of the digital transformation of investment processes through mobile payments.

CONCEPTUAL FRAMEWORK (TPB) MODEL

Theory of Planned Behavior (TPB) Model

1. Attitude Towards Mobile Payments (ATMP)
2. Subjective Norms (SN)
3. Perceived Behavioral Control (PBC)
4. Behavioral Intention to Use Mobile Payments (BI)
5. Actual Behavior (AB)

Relationships Between Constructs

- ATMP, SN, and PBC influence BI
- BI influences AB
- ATMP, SN, and PBC may also have indirect effects on AB through BI

Table 1: Based on Secondary Data

- Chong (2021): 300 young Malaysian investors
- Daragmeh (2021): 200 Hungarian Generation X individuals
- Kelvin (2024): 400 investors

Study	Sample Size	Age Range	Gender
Chong (2021)	300	18-35	55% male
Daragmeh (2021)	200	30-55	52% male
Kelvin (2024)	400	25-50	60% male

Table 2: Demographic Characteristics of Respondents

Age	Frequency	Percentage
18-24	75	25%
25-34	100	33%
35-44	75	25%
45-54	30	10%
55+	20	7%
Gender	**Frequency**	**Percentage**
Male	150	50%
Female	150	50%
Education	**Frequency**	**Percentage**
High School	50	17%
Bachelor's	100	33%
Master's	50	17%
PhD	20	7%

Table 3: Mobile Payment Adoption

Variable	Frequency	Percentage
Mobile Payment Users	200	67%
Non-Users	100	33%
Frequency of Use		
Daily	50	17%
Weekly	75	25%
Monthly	50	17%
Rarely	25	8%

Table 4: Descriptive Statistics: Perceived Usefulness and Ease of Use

Variable	Mean	SD
Perceived Usefulness	4.2	1.1
Perceived Ease of Use	4	1.2
Perceived reputation	4.1	1.1
Financial literacy	3.8	1.3
Convenience	4.5	1
Speed	4.3	1.1
Accessibility	4.1	1.2

Table 5: Investment Decisions

Variable	Frequency	Percentage
Investment Types		
Stocks	75	25%
Bonds	50	17%
Mutual Funds	50	17%
Other	25	8%
Investment Frequency		
Daily	20	7%
Weekly	30	10%
Monthly	50	17%
Rarely	40	13%

Table 6: Regression Analysis

Predictor	β	p-value
Perceived usefulness	0.35	< 0.01
Perceived ease of use	0.28	< 0.05
Perceived reputation	0.25	< 0.05
R-squared	0.42	-
F-statistic	12.5	< 0.001

SUGGESTIONS

Financial institutions, policymakers, and technology developers should prioritize user-friendly interfaces, security, and trust-building measures. Policymakers should support financial literacy programs and regulate fintech companies to mitigate associated risks. Technology developers should enhance mobile payment security and improve user experience. Additionally, strengthening financial literacy and education will empower investors to make informed decisions. Leveraging social influence and reputation, along with developing targeted marketing strategies, can effectively drive mobile payment adoption.

CONCLUSION AND IMPLICATIONS

This study investigates the interplay between mobile technology, investment decisions, and fintech in emerging markets, focusing on critical factors such as demographics, mobile payment adoption, investment decisions, perceived usefulness, ease of use, reputation, social influences, financial literacy, technological aspects, and psychological traits. The findings highlight the significance of perceived usefulness, ease of use, and reputation in shaping mobile payment adoption and investment decisions.

To capitalize on these insights, policymakers should regulate fintech to ensure security and stability, while financial institutions should develop user-friendly mobile payment platforms. Investors should consider perceived reputation and financial literacy when making investment decisions. By understanding these complex interactions, stakeholders can promote mobile-based financial services, increase adoption, and enhance financial literacy, ultimately driving economic growth and development in emerging markets.

While existing research on mobile payment adoption and fintech innovations provides valuable insights, several scope limitations need to be addressed. Many studies focus on general trends, but there is a need for deeper exploration of demographic-specific factors and regional differences. Emerging technologies like blockchain and AI remain underexplored in terms of their impact on mobile payment systems. Additionally, predictive models for adoption are still in their early stages, requiring further development to account for evolving consumer behavior and technological advancements.

Future research should consider the long-term effects of fintech on traditional banking, explore regulatory responses in diverse markets, and conduct longitudinal studies to track shifts in mobile payment usage over time. Interdisciplinary approaches to fintech should also be explored to examine the long-term implications of mobile technology on investment patterns and economic development. Furthermore, experimental interventions could be tested to better understand how to accelerate adoption across different demographic and regional contexts.

REFERENCES

1. Abad-Segura, E. (2020). Financial technology: Review of trends, approaches, and management. *MDPI*.
2. Al-Saedi, K. (2020). Developing a general extended UTAUT model for M-payment adoption.
3. Chong, L. (2021). Acceptability of mobile stock trading applications: A study of young investors in Malaysia.
4. Daragmeh, M. (2021). FinTech payments in the era of COVID-19: Factors influencing behavioral intentions of Generation X in Hungary to use mobile payments.

5. Fan, L. (2022). Mobile investment technology adoption among investors.
6. Garg, G. (2023). A bibliometric analysis of fintech trends and digital finance.
7. Jain, R. (2023). A systematic literature review of the risk landscape in fintech. *MDPI*.
8. Jarvis, R., & Han, H. (2021). FinTech innovation: Review and future research directions.
9. Kelvin, Y. M., & Li, S. L. (2024). Investors’ intention to use mobile investment: An extended mobile technology acceptance model with personal factors and perceived reputation. *Cogent Business & Management*, *11*(1). https://doi.org/10.1080/23311975.2023.2295603
10. Khazratkulov, O. (2023). Navigating the FinTech revolution: Legal challenges and opportunities in the digital transformation of finance.
11. Barroso, M., & López, J. L. (2022). Digital transformation and the emergence of the FinTech sector: A systematic literature review. *Digital Business, Elsevier*.
12. Nasir, A. (2021). Trends and directions of financial technology (FinTech) in society and environment: A bibliometric study.
13. Suryono, R. (2020). Challenges and trends of financial technology (FinTech). *MDPI*.
14. Zhan, Y. L. (2023). Has FinTech changed the sensitivity of corporate investment to interest rates? Evidence from China.
15. Zou, Z. (2023). Insight into digital finance and FinTech: A bibliometric and content analysis.

NAVIGATING TAXES: WINNING STRATEGIES FOR START-UPS

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ABSTRACT

Start-ups are crucial drivers of innovation and economic development but often face significant challenges in meeting their tax obligations as they grow. This paper explores the tax strategies that start-ups can adopt to navigate a complex tax environment and enhance their growth prospects. It examines the role of government regulations and incentives designed to support start-ups, such as tax credits, deductions, and financial grants. The study highlights the need for greater awareness among entrepreneurs regarding available tax incentives to maximize financial efficiency and reduce liabilities.

Furthermore, this study evaluates specific government initiatives, including Start-up India, Atal Innovation Mission, and PM Mudra Yojana, which provide a framework for tax relief and financial support, aiding start-ups in achieving long-term growth. It also assesses the extent to which entrepreneurs are aware of and effectively utilize these programs, as well as their impact on start-up performance in key areas such as access to finance, job creation, and innovation.

The study concludes by emphasizing the critical role of strategic tax planning and government support in ensuring the sustainability of start-ups, fostering innovation, and driving overall economic growth.

Keywords*: Start-ups, tax relief, tax incentives, awareness, government support, economic growth*

INTRODUCTION

Starting a business is both an exciting and challenging journey, requiring numerous decisions that can significantly impact success. Among these, effective tax strategies play a crucial role in shaping the financial health of a start-up. By leveraging available tax benefits and incentives, entrepreneurs can optimize cash flow, reduce costs, and enhance their ability to reinvest in growth.

In today's competitive environment, it is essential for start-ups to understand the intricacies of tax planning. Governments worldwide offer various programs to encourage innovation and entrepreneurship, often providing tax exemptions, deductions, and credits specifically designed for new businesses. By strategically utilizing these options, start-ups can not only minimize their tax liabilities but also position themselves for long-term sustainability and success.

India has launched several key government programs to support start-ups, demonstrating a strong commitment to fostering entrepreneurship and innovation. One such initiative is the Start-up India Initiative, launched on January 16, 2016, which serves as a flagship program offering various benefits, including tax exemptions and financial support for new businesses.

REVIEW OF LITERATURE

Startups play a crucial role in driving economic growth and innovation. However, they face multiple financial and regulatory challenges, particularly in taxation and compliance. Government policies, tax incentives, and regulatory frameworks significantly influence the sustainability and success of startups. Existing literature highlights the importance of tax relief measures, compliance challenges, and strategic tax planning for startups in India.

The Angel Tax, introduced under Section 56(2)(viib) of the Income Tax Act, was initially designed to curb money laundering but has posed significant hurdles for genuine startups. Many startups struggle with tax demands due to valuation discrepancies in angel investments (Economic Times, 2017). In response, the Government of India has provided exemptions under the Startup India Action Plan (2016) to ease the financial burden and encourage investments.

The introduction of GST was a significant reform aimed at simplifying indirect taxation. However, startups face compliance issues such as multiple tax filings, complex invoice matching, and delays in Input Tax Credit (ITC) processing (Goods and Services Tax Network, n.d.). Many startups struggle with managing working capital due to GST-related constraints. To address these issues, the government has introduced simplified GST procedures and composition schemes for small businesses.

The Startup India Action Plan (2016) offers various tax benefits to promote entrepreneurship. Key incentives include:

- Income tax exemption for startups for three consecutive years within the first seven years of incorporation.
- Capital gains tax exemptions for investments made in eligible startups.
- Tax deductions on R&D expenses, encouraging innovation and technological advancements (Government of India, 2016).

Additionally, initiatives like the Atal Innovation Mission and PM Mudra Yojana provide financial and tax support, improving startup sustainability and innovation.

Tax incentives play a crucial role in enhancing financial efficiency and reducing the burden on startups. According to Tiwari (2017), key tax incentives include:

- Exemption under Section 80-IAC: Startups recognized by the Department for Promotion of Industry and Internal Trade (DPIIT) can avail a 100% tax exemption for three years (Income Tax Department, Government of India, n.d.).
- Capital gains tax exemption: Investors in startups are eligible for capital gains tax relief when reinvesting in eligible funds.
- Tax relief on Employee Stock Ownership Plans (ESOPs): Startups can defer tax payments on ESOPs to improve employee retention.
- GST benefits: Startups in priority sectors like technology, renewable energy, and agriculture enjoy reduced tax rates and GST credits.

Effective tax planning is essential for startups to optimize cash flow and reinvest in growth. Radhika (2024) emphasizes the following strategies:

- Choosing the right business structure (LLP, Private Limited Company) to maximize tax benefits.
- Maintaining proper financial records to claim deductions efficiently.
- Utilizing depreciation benefits to lower taxable income.
- Leveraging government-backed funds like the Fund of Funds for Startups (FFS) to access capital with tax advantages.

OBJECTIVES OF THE STUDY

- To assess the impact of government tax relief programs for start-ups.
- To analyze the available tax incentives for start-ups.
- To raise awareness about start-ups in India.

RESEARCH METHODOLOGY

This study adopts an explanatory research methodology and utilizes secondary data sources such as research papers, websites, and other relevant publications to study and analyze the impact of tax policies and government schemes on the growth and sustainability of start-ups.

THE ROLE OF GOVERNMENT REGULATIONS IN PROVIDING TAX RELIEF TO STARTUPS

This research objective focuses on evaluating the impact of government schemes on tax relief for start-ups, particularly those aimed at encouraging innovation, supporting entrepreneurship, and promoting the long-term growth of emerging businesses. Government initiatives such as Start-up India, Atal Innovation Mission, and various regional programs have been implemented to create a conducive ecosystem for start-ups by providing targeted tax breaks, financial incentives, and regulatory support.

- **Income Tax Exemptions**: Many government programs offer income tax exemptions for a specified period, allowing start-ups to retain more capital for reinvestment. For example, the Start-up India program provides income tax exemptions for three consecutive years during the first seven years of a start-up's existence, helping companies invest in innovation and market expansion.
- **Tax Deductions for Investments in R&D**: Some government programs offer tax deductions for expenditures related to research and development (R&D). These programs aim to encourage start-ups to invest in innovation and technological advancement, leading to new products, services, or processes that promote both business growth and industry competitiveness.
- **Capital Gains Tax Exemption for Investors**: To encourage investment, certain government schemes provide tax relief on capital gains for investors who fund qualifying start-ups. By lowering the tax burden on capital gains, these initiatives attract venture capital and angel investment, which are critical to funding start-ups.
- **Simplifying Compliance Procedures**: Many government initiatives also focus on simplifying tax compliance for start-ups, reducing administrative burdens, and making it easier for entrepreneurs to focus on business development. Programs such as the simplified Goods and Services Tax (GST) regime for small businesses enable start-ups

to meet their tax obligations with minimal complexity.

- **Industry-Specific Tax Benefits**: Certain government schemes provide tax incentives to start-ups operating in priority sectors such as renewable energy, technology, healthcare, and agriculture. These sector-specific incentives encourage growth in industries that align with national economic goals, contributing to both the success of start-ups and overall economic development.
- **Support for Export-Oriented Startups**: Some government programs offer tax breaks and subsidies for start-ups focused on international trade and exports. By reducing export-related taxes, these schemes help start-ups expand their reach in global markets, fostering growth and diversification of revenue streams.
- **ESOP (Employee Stock Option Plan) Tax Benefits**: Many government schemes provide tax benefits for start-ups that offer Employee Stock Option Plans (ESOPs) to their employees. These schemes enable start-ups to attract and retain top talent without the immediate burden of cash, while also offering tax relief to employees on stock option gains.
- **Incentives for Social Impact Startups**: For start-ups that focus on social innovation, sustainability, or environmental sustainability, some government programs offer special tax breaks or credits. These initiatives support the growth of companies that contribute to national and global sustainable development goals.

TAX INCENTIVES FOR STARTUPS

In India, the government offers several tax incentives specifically designed to support startups and promote a favorable environment for entrepreneurship.

1. **Start-up India Initiative**
   - **Tax exemption on profits**: Startups recognized under this initiative can receive a 100% tax exemption on their profits for three years within the first seven years of their existence.
2. **Exemption from Capital Gains**
   - **Investments in startups**: Capital gains from the sale of assets can be exempt from tax if the profits are reinvested in a recognized startup company,

encouraging investment in new businesses.

3. **Tax Incentives for Research and Development (R&D)**
   - **R&D deductions**: Companies engaged in R&D can claim a tax deduction of up to 150% of eligible R&D expenses, promoting innovation and technological advancement.
4. **Carry Forward of Losses**
   - **Business losses**: Startups can carry forward losses for up to eight years, allowing them to offset future taxable income and reduce financial burdens in the early years.
5. **Tax Exemption for Certain Sectors**
   - **Priority industries**: Certain sectors, such as renewable energy, agriculture, and technology, may benefit from tax exemptions or reduced tax rates to encourage growth and investment.
6. **Benefits of the Goods and Services Tax (GST)**
   - **Reduced tax rates**: Certain goods and services offered by startups may qualify for lower GST rates, and input tax credits can help reduce overall tax liability.
7. **Tax Exemption for Angel Investors**
   - **Startup funding**: Investments that startups receive from angel investors above market value are exempt from income tax under specific conditions, making fundraising easier.
8. **Advantages for Micro, Small, and Medium Enterprises (MSMEs)**
   - **MSME tax benefits**: Startups registered as MSMEs are eligible for additional tax benefits, including lower tax rates and access to various government schemes.
9. **Tax Deduction at Source (TDS) Exemptions**
   - **Cash flow facilitation**: Some startups can claim exemptions from TDS on certain payments, improving cash flow management.
10. **Benefits of Special Economic Zones (SEZs)**
    - **Tax incentives**: Companies operating in SEZs can benefit from various tax incentives, including exemptions from customs duties and other taxes.
11. **Reduction of Corporate Tax Rate**
    - **Lower tax burden**: The government has reduced the corporate tax rate for new manufacturing companies to encourage investment in the manufacturing sector.
12. **Investment Incentives for Startup Funds**
    - **Fund of Funds for Startups (FFS)**: This government-backed fund provides capital to alternative investment funds, which, in turn, invest in startups, indirectly benefiting from tax incentives.

RECOGNITION AND AWARENESS

The recognition and benefits of government programs in India have significantly impacted the startup ecosystem.

Start-up India Initiative

- More than 60,000 startups have been recognized under the Start-up India Initiative since its launch in 2016. These startups have benefited from tax exemptions, funding opportunities, and other program benefits.

MUDRA Loans

- The MUDRA program has provided loans to millions of micro and small enterprises, including a significant number of startups, giving them access to much-needed capital.

Credit Guarantee Fund Scheme for Startups (CGSS)

- Thousands of startups have benefited from this scheme, which provides guarantees for loans granted by banks and financial institutions.

Fund of Funds for Startups (FFS)

- More than 500 startups have received support through various Alternative Investment Funds (AIFs) funded by FFS, improving their access to capital.

Start-up India Seed Fund Scheme

- This recently launched scheme aims to support around 3,600 startups over four years, providing financial assistance for proof of concept and market entry.

RAISING AWARENESS AND ACCESS

Startups are made aware of these government programs through various channels:

Official Government Websites

- The Start-up India Portal and other government websites provide detailed information about the programs, eligibility criteria, and application procedures.

Workshops and Seminars

- Various organizations, including government agencies and industry associations, conduct workshops and seminars to inform entrepreneurs about available programs.

Networking Events

- Start-up events, pitch competitions, and networking meetings provide platforms for entrepreneurs to learn more about government initiatives from peers and experts.

Incubators and Accelerators

- Many startups are part of incubators and accelerators, which often provide assistance in navigating government programs and accessing funding.

Social Media and Online Communities

- Entrepreneurs often use social media platforms, online forums, and groups to share information and experiences related to government programs.

Advisory Services

- Guidance from tax experts and business advisors helps startups understand the benefits of various schemes and how to apply for them.

FINDINGS

The results of the analysis reveal several key strategies that can significantly improve the growth and sustainability of startups in India. Leveraging government programs and support is a crucial factor in easing financial constraints. Programs like Startup India, MUDRA loans, and various tax exemptions serve as essential resources for early-stage companies. Staying updated through platforms like the Startup India Portal can help entrepreneurs access funding, tax breaks, and regulatory support necessary for business survival and growth. Additionally, participation in government-sponsored incubators, accelerators, and networking events empowers startups by providing mentorship, access to funding, and opportunities to connect with potential investors, collaborators, and customers. These platforms not only offer direct benefits but also assist startups in navigating complex processes and regulations.

The choice of corporate structure plays a critical role in maximizing tax efficiency and eligibility for government incentives. Selecting the right structure—such as a Private Limited Company or Limited Liability Partnership (LLP)—can unlock various financial benefits, including tax exemptions and research and development credits. Entrepreneurs must carefully consider the long-term tax implications of their business structure to optimize financial resources. At the same time, utilizing depreciation and maintaining proper recordkeeping are essential strategies for minimizing tax liability. By employing accelerated depreciation methods such as MACRS, startups can reduce taxable income in the early years of operation, thereby improving cash flow. Additionally, consistent recordkeeping ensures compliance with tax regulations and enables startups to effectively claim eligible deductions, further strengthening their financial health.

Finally, networking and collaboration within the startup ecosystem play a pivotal role in a startup's success. Engaging with industry peers, authorities, and trade associations fosters innovation, provides access to new opportunities, and strengthens the support network essential for scaling. Collaboration within the ecosystem not only opens doors to funding and partnerships but also offers valuable insights and guidance to help startups overcome challenges.

By combining these strategic approaches—leveraging government support, optimizing tax benefits, and fostering collaboration—startups can position themselves for long-term growth and success.

SUGGESTIONS FOR START-UPS

Start-ups in India can benefit from several strategies to effectively utilize government support. First, it is crucial to stay actively informed about and apply for various government programs, such as the Startup India Initiative and MUDRA loans, to access funding and tax benefits that ease financial burdens. Entrepreneurs should regularly visit official government websites, such as the Startup India Portal, to stay updated on new opportunities. Attending workshops and seminars organized by government bodies and industry associations can provide valuable insights into the startup ecosystem. Additionally, participating in incubators and accelerators can offer mentorship and support in accessing government benefits. Networking events and pitch competitions can also facilitate connections with other entrepreneurs, investors, and mentors, enriching the knowledge pool regarding available support.

Starting a business requires careful planning and a clear understanding of the tax implications associated with various business decisions. One of the first steps is choosing the right business structure, as the legal form selected impacts tax obligations. Options include sole proprietorships, limited liability partnerships (LLPs), and private limited companies, each offering distinct tax advantages.

Start-ups engaged in innovation or new product development can benefit from tax credits, such as the research and development (R&D) credit. Additionally, depreciation of business assets, such as machinery or real estate, can provide significant tax advantages through accelerated depreciation methods, such as MACRS, reducing taxable income in the early years.

Maintaining accurate financial records is critical for maximizing deductions and ensuring compliance. It is essential to document all business transactions, including receipts, payroll, and contracts, to facilitate proper tax filings and optimize financial management.

CONCLUSIONS

In summary, the Indian government provides a robust framework of initiatives and support mechanisms aimed at encouraging entrepreneurship and innovation among startups. By actively participating in these programs, staying informed, and utilizing the available resources, startups can significantly enhance their growth potential and overcome the challenges of the business landscape.

The importance of building networks, seeking professional advice, and sharing experiences cannot be overstated, as these actions foster a collaborative environment that benefits the entire startup ecosystem. Additionally, by advocating for improvements and monitoring the impact of government support, entrepreneurs can contribute to the ongoing development of policies that further encourage new businesses.

Ultimately, adopting these strategies will not only enable startups to thrive in a competitive market but also contribute to India's broader economic development.

REFERENCES

1. Economic Times. (2017). *Angel tax: Issues and exemptions for start-ups in India*. Retrieved from https://economictimes.indiatimes.com
2. Goods and Services Tax Network. (n.d.). *GST compliance for start-ups: Challenges and solutions*. Retrieved from https://www.gstn.org.in
3. Government of India. (2016). *Start-up India action plan*. Ministry of Commerce and Industry. Retrieved from https://www.startupindia.gov.in
4. Income Tax Department, Government of India. (n.d.). *Section 80-IAC: Tax incentives for start-ups*. Retrieved from https://www.incometaxindia.gov.in
5. Tiwari, A. (2017). *Taxation of start-ups in India: Incentives and exemptions*.

WEALTH MANAGEMENT FOR MILLENNIALS AND GEN Z

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ABSTRACT

Wealth management for Millennials and Gen Z is reshaping traditional financial paradigms as these younger generations confront unique economic conditions and evolving financial priorities. Unlike previous generations, Millennials and Gen Z approach wealth with a heightened focus on flexibility, digital accessibility, and values-based investing. This paper explores the defining characteristics, challenges, and emerging trends in wealth management that cater specifically to these generations, highlighting the importance of financial literacy, technology-driven solutions, and the role of sustainable investing.

As economic landscapes shift, these generations face distinctive obstacles, such as escalating education costs, housing affordability issues, and an uncertain retirement outlook. Additionally, they exhibit a strong preference for digital financial tools, including robo-advisors and investment apps that offer real-time insights and personalized financial advice. Key areas of interest, such as the FIRE (Financial Independence, Retire Early) movement, cryptocurrency, and environmental, social, and governance (ESG) investing, underscore the unique approach Millennials and Gen Z take toward wealth building, focusing on both growth and impact.

This paper presents adaptive wealth management strategies tailored to their needs, emphasizing the value of a flexible, customized financial plan that accommodates career fluidity, entrepreneurship, and personal values. By analyzing these distinct preferences, this study provides a comprehensive framework that financial institutions and advisors can employ to meet the evolving wealth management needs of Millennials and Gen Z, ultimately supporting them in achieving sustainable financial independence and security.

Keywords: *Digital Financial Tools, Financial Literacy, Sustainable Investing, FIRE Movement (Financial Independence, Retire Early).*

INTRODUCTION

Millennials and Gen Z, who grew up with technology, naturally prefer digital solutions that offer convenience, transparency, and real-time access. Many digital wealth management platforms, such as robo-advisors and investment apps, offer low or no fees, making investment options accessible to individuals with smaller capital. This democratizes wealth management by allowing young investors to start building wealth without hefty initial investments.

Platforms that offer fractional share investing enable users to buy portions of expensive stocks, making it feasible for younger investors to diversify their portfolios without needing significant capital. Digital tools often feature intuitive designs that cater to a younger audience accustomed to technology. This ease of navigation simplifies the investment process and encourages more frequent engagement with financial planning.

With the proliferation of smartphones, many digital wealth management solutions are mobile-friendly. This allows users to manage their investments and monitor their portfolios anytime, anywhere, facilitating on-the-go financial decision-making. Digital platforms provide real-time access to market data, portfolio performance, and financial news, enabling young investors to make informed decisions quickly. This immediacy is crucial for tech-savvy individuals who expect timely updates and insights.

Many tools offer personalized dashboards that visualize financial data in engaging ways, making it easier for users to understand their financial status and track their progress toward goals. Digital platforms often include educational content, such as articles, tutorials, and webinars, to enhance financial literacy. This focus on education empowers younger investors to better understand their investments and make informed choices.

Platforms that provide insights through data analysis and visual representation aid in investment decision-making through customizable dashboards, market trend analysis, and client performance reporting. These features encourage diversified investing and better financial planning.

Emerging Trends in Wealth Management Driven by Millennials and Gen Z

As Millennials and Gen Z continue to make up an increasingly significant portion of the investor population, their preferences and behaviors are shaping the future of wealth management. These generations are bringing about profound changes to the wealth management landscape, with a focus on technology, sustainability, financial literacy, and social responsibility.

Both Millennials and Gen Z have grown up in a digital world, and as a result, they expect wealth management services to be accessible, intuitive, and efficient through technology. They are less inclined to rely on traditional, face-to-face interactions with financial advisors and are instead gravitating toward digital-first solutions. Below are some of the key emerging trends in wealth management driven by these younger generations:

- **Robo-Advisors**: Automated investment platforms that use algorithms to manage portfolios are increasingly popular among younger investors. These platforms offer lower fees and accessibility, allowing users to start investing with minimal upfront capital.
- **Mobile Investment Apps**: Apps like Robinhood and Betterment cater to a tech-savvy audience, offering easy-to-use tools for trading, portfolio management, and financial planning. Millennials and Gen Z prefer having full control over their investments at their fingertips, often with low fees and high transparency.
- **Gamification**: Many younger investors are attracted to gamified experiences that some platforms offer. Features such as reward systems, leaderboards, and progress tracking make investing feel more engaging, especially for beginners.
- **Cryptocurrency Platforms**: With the rise of cryptocurrencies, platforms like Coinbase and Gemini have attracted younger investors who are looking for alternative asset classes beyond traditional stocks and bonds. The ease of buying, selling, and trading digital currencies is a key draw for Gen Z and Millennials.

- **Finfluencers (Financial Influencers)**: The rise of financial influencers is a testament to the increasing demand for accessible financial knowledge, with users sharing tips, investment strategies, and success stories.
- **ESG and Socially Responsible Investing (SRI)**: Millennials and Gen Z are deeply concerned about social, environmental, and governance (ESG) issues, and they want their investments to reflect their values. These generations prioritize investments that align with their personal beliefs, such as those focused on reducing climate change, promoting gender equality, or addressing racial and economic inequalities. Green bonds, impact funds, and socially responsible mutual funds are among the investment products that are increasingly popular.
- **Tailored Investment Strategies and Holistic Financial Planning**: They are looking for wealth management solutions that offer more than a standard investment portfolio, seeking tailored advice and investment strategies that reflect their unique circumstances. Holistic financial planning includes not only investing but also saving for retirement, managing debt, tax planning, and preparing for major life events.
- **Alternative Assets**: Both Millennials and Gen Z are more open to diversifying their portfolios by investing in alternative assets beyond traditional stocks and bonds.

Analyzing the Impact of the Financial Independence and Early Retirement (FIRE) Movement on Millennials and Gen Z

The Financial Independence and Early Retirement (FIRE) movement, which advocates for aggressively saving and investing to retire early, has gained significant traction among Millennials and Gen Z. This movement has reshaped the way many view work, money, and life priorities. However, while the FIRE movement has inspired countless individuals to rethink their financial futures, it also comes with a range of potential benefits, challenges, and criticisms.

Millennials (born 1981–1996) and Gen Z (born 1997–2012) have been increasingly motivated by the FIRE philosophy, which encourages people to take control of their finances, reduce dependence on traditional employment, and design their own lives. The FIRE movement has empowered young people to reject the traditional "rat race" mentality of working long hours just to cover living expenses. Many Millennials and Gen Z individuals are more interested in the idea of working for purpose rather than out of necessity. Achieving financial independence through saving, investing, and living frugally has become a marker of personal freedom.

Many Millennials and Gen Z individuals have adopted aggressive savings strategies and are more likely to prioritize investments in low-cost index funds, real estate, and other asset-building avenues. This has led to a greater awareness of long-term financial planning and retirement goals, even at relatively young ages.

- A significant number of Millennials and Gen Z have embraced gig work, freelancing, and remote work as a means of achieving financial independence and greater flexibility in their lives. This aligns with the FIRE philosophy of reducing dependence on a traditional 9-to-5 job.

- By opting for flexible work arrangements, many young people are striving for work-life balance and more autonomy in how they spend their time. This trend is accelerating as more companies offer remote work options and gig economy platforms become more widely available.
- While the FIRE movement's principles of saving a large portion of income and living frugally are appealing, they are not universally accessible. Many Millennials and Gen Z individuals face significant challenges, such as stagnant wages, high living costs, student debt, and limited access to wealth-building opportunities.
- The FIRE movement can be seen as more achievable for those in higher-income brackets, often leaving out individuals in low-income or high-debt situations who may not have the luxury of saving aggressively or investing early. This has led to concerns about the movement's accessibility and inclusivity.
- The idea of retiring early might not be as sustainable or desirable as it seems. Financial independence does not always equate to a happy or fulfilling life once someone achieves it, and early retirement can sometimes lead to feelings of isolation, boredom, or a lack of purpose.
- Additionally, economic shifts such as inflation, housing market volatility, and changes in the investment landscape can threaten the feasibility of early retirement for those relying on the FIRE strategy. Economic downturns can result in setbacks that delay financial independence for those who have aggressively pursued this goal without considering long-term risks.
- In some cases, the pursuit of FIRE can also create a sense of comparison or "keeping up" with others in the FIRE community, leading to stress or anxiety over one's progress.

Examining the Value of Sustainable and Ethical Investing

Sustainable and ethical investing—often referred to as Socially Responsible Investing (SRI), Environmental, Social, and Governance (ESG) investing, and Impact Investing—has emerged as a significant trend in the financial world, particularly over the past two decades. These investment strategies prioritize not just financial returns but also the broader impact of investments on society and the environment.

The increasing interest in sustainable and ethical investing is driven by rising awareness of environmental degradation, social justice issues, and corporate governance concerns, especially among younger generations like Millennials and Gen Z. Investors are increasingly seeking ways to align their portfolios with their personal values while also contributing to positive change in the world.

Environmental Factors: Focuses on how a company or investment impacts the natural environment, including issues like climate change, resource depletion, waste management, and pollution.

Social Factors: Looks at a company's relationships with employees, suppliers, customers, and communities. This includes fair labor practices, consumer protection, human rights, and social equity.

Governance Factors: Evaluates the leadership, transparency, accountability, and business ethics of a company, including executive pay, board diversity, and shareholder rights.

As demand for ESG investing grows, governments and regulators are likely to introduce more robust frameworks for ESG disclosures, performance metrics, and reporting standards. The European Union, for instance, has led the way with regulations like the SFDR, which requires asset managers to disclose how their investments align with sustainability goals.

The rise of AI and big data analytics can improve the accuracy of ESG assessments by providing more real-time, granular, and actionable data on company practices. This will help reduce the challenges of "greenwashing" and make it easier for investors to track and manage the social and environmental impacts of their investments.

Sustainable and ethical investing offers investors an opportunity to create a positive social and environmental impact while potentially earning competitive financial returns. It empowers individuals to align their portfolios with their values and mitigate long-term risks associated with environmental and social issues. Despite challenges such as lack of standardization and higher costs—sustainable investing is increasingly becoming an essential component of modern investment strategies. As both societal demand and regulatory frameworks evolve, sustainable and ethical investing will likely continue to grow and shape the future of finance.

OBJECTIVES:

- To investigate the role of technology and digital solutions in wealth management.
- To analyze the impact of the Financial Independence and Early Retirement (FIRE) movement on Millennials and Gen Z.
- To examine the value of sustainable and ethical investing (ESG).

LITERATURE REVIEW:

The rise of Millennials and Gen Z as influential financial demographics has prompted a re-evaluation of wealth management strategies. These generations exhibit distinct attitudes towards money, investment, and technology, necessitating tailored approaches in the wealth management industry. This literature review synthesizes current research on the financial behaviours, preferences, and challenges faced by Millennials and Gen Z. The rise of Millennials and Gen Z as influential financial demographics has prompted a re-evaluation of wealth management strategies. These generations exhibit distinct attitudes towards money, investment, and technology, necessitating tailored approaches in the wealth management industry. This literature review synthesizes current research on the financial behaviours, preferences, and challenges faced by Millennials and Gen Z. Millennials and Gen Z are digital natives, with 82% using mobile apps for banking and investments. This demographic expects seamless digital experiences and instant access to financial information. Millennials and Gen Z represent a transformative force in the wealth management landscape. Their unique preferences, technological fluency, and financial challenges necessitate innovative strategies from wealth management firms. As these generations continue to mature financially, their impact on investment trends and financial services will likely grow, making it essential for firms to adapt and evolve in response to their needs. Further research is needed to explore the long-term implications of these trends and how firms can best engage and serve these clients effectively.

Research by Capgemini (2020) suggests that wealth management firms must adopt more personalized approaches, offering flexible investment options that cater to individual preferences and values.

The rise of financial influencers on platforms like TikTok and Instagram has changed how young investors seek advice. A study by NextGen Personal Finance (2022) found that 45% of Gen Z investors are influenced by social media content when making investment decisions. According to a report from Statista, the global assets managed by robo-advisors were projected to reach approximately $2.5 trillion by 2023, up from around $1 trillion in 2019. This indicates a growing acceptance of automated investment solutions.

A survey by Capgemini found that over 80% of affluent investors prefer using digital channels for their financial services. This reflects a significant shift toward digital engagement in wealth management

Automation and digital workflows streamline operations, allowing firms to operate more efficiently. According to Deloitte, firms utilizing advanced analytics for risk management can reduce operational losses by up to 50%. This demonstrates the effectiveness of technology in enhancing risk management capabilities.

Platforms that provide insights through data analysis and visual representation, aiding in investment decision-making. Customizable dashboards, Market trend analysis, Client performance reporting these statistics underscore the significant role technology and digital solutions play in transforming wealth management. The growing preference for digital services among clients, the efficiency gains for firms, and the positive impact on client satisfaction and retention all illustrate the necessity of embracing technology in the industry. As trends continue to evolve, data-driven insights will further shape the strategies of wealth management firms. The ongoing evolution of the financial planning and wealth management landscape necessitates continuous research and development in these areas to ensure optimal client outcomes and the integrity of the profession. Gupta, S. (2020). Financial planning and wealth management in India: A review of literature. Journal of Financial Planning, 33(2), 123-140.

METHODOLOGY

In my paper presentation, I utilized secondary data to support and strengthen my research findings.

For my study, I relied on existing datasets, such as government reports, academic journals, and industry publications, to provide a broader context and comparative analysis of the topic. This approach allowed me to draw on a wide range of previously published work and datasets to identify trends.

Using secondary data not only enhanced the credibility of my arguments but also helped situate my research within the larger body of existing literature, offering a more comprehensive perspective on the issue at hand. By integrating this secondary data, I was able to present a more robust and well-rounded analysis that resonated with the conference audience and demonstrated the broader relevance of my findings.

SUGGESTIONS

- **Technological Innovation**: As technology continues to evolve, Millennials and Gen Z are likely to take advantage of emerging opportunities in tech, such as digital currencies, blockchain investments, and AI-powered investment strategies, further reshaping the future of personal finance and financial independence.
- **Broader Societal Shift**: The FIRE movement may continue to challenge the traditional employment paradigm. As more individuals prioritize flexibility and autonomy in their work, employers may need to adapt to a more diverse set of expectations and career trajectories, which could shift corporate culture and employment benefits in the long term.
- **Environmental and Ethical Considerations**: As younger generations are increasingly concerned with sustainability, the FIRE movement may continue to evolve with a focus on ethical investing, environmental responsibility, and social impact. This could create a new wave of financial independence strategies that prioritize not just personal wealth but also a broader societal good.
- Millennials and Gen Z have the advantage of time, technology, and a greater awareness of social and environmental issues. If they can balance modern investing trends with sound financial principles, they are poised to build significant wealth in the years to come. Financial planning is about building habits that will pay off over time—start early, stay disciplined, and adapt as life changes.
- Wealth management isn't just about making money—it's about making money work for you. By adopting these strategies, Millennials and Gen Z can build a strong foundation for long-term financial health, regardless of economic conditions. The key is to be disciplined, take calculated risks, and continuously educate yourself about how money works.
- Building wealth is a long-term journey that requires discipline, smart decisions, and patience. Millennials and Gen Z have the unique advantage of time, which can amplify the benefits of early saving and investing. Stay focused on your financial goals, embrace technology to simplify money management, and always be open to learning. By prioritizing financial literacy, diversifying investments, and planning for the future, you can create a solid foundation for lasting financial security. Consistency, not perfection, is key to growing wealth over time.

CONCLUSION

The FIRE movement has had a transformative impact on Millennials and Gen Z by shifting their views on money, work, and life. It has empowered individuals to take greater control of their financial futures, adopt smarter saving and investing practices, and prioritize work-life balance and freedom. However, it also raises important questions about accessibility, long-term sustainability, and the emotional costs of extreme frugality. While the FIRE movement has inspired a cultural shift toward financial independence, its success will depend on how well it evolves to address the challenges of a rapidly changing economic landscape.

REFERENCES

1. Brigham, E. F., & Ehrhardt, M. C. (2020). *Financial management: Theory & practice*. Cengage Learning.
2. CFP Board. (2021). *Financial planning competency handbook*. Certified Financial Planner Board of Standards.
3. Miller, M. (2019). *Wealth management: The new business model for financial advisors*. Wiley.
4. McKinsey & Company. (2021). *The future of wealth management: Adapting to change*. McKinsey Research.

THE CONTRIBUTION OF STRATEGIC BUSINESS LEADERSHIP TO THE EFFECTIVENESS OF PRODUCT MARKETING: PERSPECTIVES FROM DEVELOPING MARKETS

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ABSTRACT

Strategic business leadership is critical to driving product marketing success in today's competitive business climate, especially in growing markets. This study examines key lessons from a range of emerging countries, highlighting the need for strategic leadership in achieving successful product marketing outcomes. The study explores how consumer behavior, market dynamics, and leadership intersect, emphasizing the importance of adaptable approaches that account for the unique opportunities and challenges faced in emerging economies.

To gain a competitive advantage, the study analyzes essential leadership strategies that foster innovation, customer engagement, and brand positioning. It highlights the role of strategic leaders in effective resource allocation, managing market volatility, and cultivating an adaptable and responsive corporate culture in emerging markets. By leveraging local insights and market knowledge, these leaders ensure that products meet the evolving needs of consumers while enhancing their relevance and appeal.

Furthermore, the abstract explains how strategic business leadership facilitates the alignment of marketing goals with overall corporate objectives, ensuring that marketing initiatives are both successful and sustainable. The research also underscores the significance of cross-functional collaboration, with leaders fostering synergy among product development, sales, and marketing teams to create cohesive and effective marketing campaigns.

Overall, this abstract provides a comprehensive overview of how strategic business leadership influences product marketing performance in emerging markets. These insights emphasize the need for visionary leadership that remains grounded in market realities, offering valuable lessons for businesses seeking to expand their presence in these sectors.

Keywords: *product marketing, consumer behavior, emerging markets, innovation, brand positioning, market intelligence, cross-functional collaboration, strategic business leadership.*

INTRODUCTION

The success of product marketing is increasingly influenced by strategic leadership in a corporate environment that is becoming more competitive and globalized. Leadership plays a particularly significant role in marketing performance in developing markets, where both rapid economic growth and evolving consumer preferences present opportunities and challenges. Strategic business leadership, characterized by a focus on long-term vision, adaptability, and innovative decision-making, is crucial for businesses seeking to establish a competitive advantage and meet the unique demands of these markets.

Unlike industrialized economies, developing markets are defined by distinct economic, cultural, and infrastructural conditions. Effective product marketing in these regions is complicated by various factors, including fluctuating economic stability, diverse consumer demands, varying levels of technological adoption, and regulatory obstacles. Strategic leaders are well-positioned to drive product success by navigating these challenges through an understanding of local dynamics, the development of robust marketing strategies, and the promotion of flexibility.

The objective of this study is to examine how strategic business leadership impacts product marketing effectiveness in emerging economies. By analyzing how leaders shape and influence marketing strategies, this study aims to illustrate the direct and indirect effects of strategic decisions on product positioning, market penetration, and consumer engagement. Specifically, the research will explore how different leadership styles impact marketing outcomes in environments where consumer behavior and market dynamics are rapidly evolving. Additionally, it will investigate the extent to which strategic leadership enables businesses to address market-specific challenges, capitalize on regional opportunities, and foster long-term relationships with customers in these regions.

This study seeks to provide valuable insights for policymakers, marketers, and business executives aiming to understand the interplay between strategic leadership and marketing success in emerging markets. By focusing on real-world case studies, best practices, and evolving trends, this research will highlight the critical role of leadership in developing successful product marketing strategies that resonate with diverse consumer bases. Ultimately, this study aims to contribute to the growing body of research on the importance of strategic leadership in driving effective marketing outcomes in the dynamic and rapidly expanding contexts of developing nations.

OBJECTIVES

- To examine how strategic corporate leadership influences the development of successful product marketing plans in emerging markets.
- To investigate how strategic choices and leadership philosophies impact market penetration, brand awareness, and product positioning in various regions.
- To explore the unique opportunities and challenges that strategic leaders face in emerging markets and how these factors affect marketing effectiveness.
- To evaluate the impact of strategic leadership on marketing performance indicators in developing economies, including customer acquisition, retention, and sales growth.
- To identify case studies and best practices that demonstrate how strategic corporate leadership has enhanced marketing effectiveness in emerging markets.
- To assess the relationship between strategic leadership and adaptability to local consumer behaviors, market demands, and cultural dynamics in the context of product marketing.
- To provide recommendations for business executives on how to leverage strategic insights to improve marketing outcomes in emerging regions.
- To explore how strategic corporate leadership can address evolving consumer needs in

developing countries through innovation and flexibility.

METHODOLOGY AND DESIGN

This study's design and methodology are structured to provide a comprehensive examination of how strategic business leadership enhances the effectiveness of product marketing in emerging markets. This section outlines the research methodology, data collection strategies, sampling techniques, and data analysis methods employed to achieve the study’s objectives.

1. Research Method

To capture the complex role of strategic leadership in marketing, this study employs a qualitative research approach, focusing on case studies and in-depth interviews. Given the exploratory nature of the research, a qualitative methodology offers deep, contextual insights into how leaders influence marketing strategies, overcome challenges, and leverage opportunities unique to emerging markets. A small quantitative component may also be incorporated to measure key performance indicators (KPIs) related to marketing effectiveness, such as market share growth, customer acquisition rates, and brand recognition.

2. Research Design

A case study research design is adopted to examine real-world instances where strategic business leadership has influenced marketing outcomes in emerging markets. Selected businesses from industries with dynamic marketing strategies—such as retail, technology, and consumer products—serve as examples to explore the interaction between marketing and leadership. This design enables an in-depth analysis of different marketing strategies and leadership styles across various business environments.

3. Data Collection Methods

- **Primary Data:** The main source of data comes from semi-structured interviews with CEOs, marketing directors, and strategic leaders from selected companies in emerging markets. These interviews aim to explore strategic decisions, challenges, and the impact of leadership on marketing strategies.
- **Secondary Data:** For each case study, secondary data is collected from business reports, trade journals, and market research studies. This information is used to contextualize leadership and marketing initiatives, provide historical insights into organizational performance, and support the qualitative findings from interviews.

4. Sampling Methods

To select companies and executives that best represent strategic leadership in marketing within emerging markets, the study employs purposive sampling. Selection criteria include:

- Presence in one or more emerging markets, such as Latin America, Africa, or Asia.
- Demonstrated success in marketing and product expansion.
- Availability of key stakeholders willing to participate in interviews.

Sample Size: The study targets approximately 5–7 organizations and 10–15 key executives, ensuring a manageable yet diverse sample for in-depth qualitative analysis.

5. Data Analysis Methods

- **Thematic Analysis:** A thematic analysis of qualitative interview data is conducted to identify recurring themes related to marketing effectiveness, strategic approaches, and leadership styles. This method helps categorize insights and highlight how strategic leadership decisions influence specific marketing outcomes.

- **Cross-Case Analysis:** A cross-case analysis is performed to identify common patterns and differences across various companies and industries. This comparative approach highlights factors that may be unique to certain markets or broadly applicable to emerging economies.
- **Quantitative Analysis (if applicable):** Any collected quantitative data, such as KPI metrics, is analyzed descriptively to assess the relationship between marketing effectiveness and strategic leadership.

6. Validity and Reliability

To ensure the validity and reliability of the findings, triangulation is employed by cross-referencing interview data with secondary sources, such as industry reports and company performance records. Additionally, **member validation** is conducted by sharing preliminary findings with a select group of participants to verify interpretations and enhance accuracy.

7. Ethical Considerations

The study adheres to ethical standards, ensuring that participants provide informed consent, that sensitive data remains confidential, and that the research purpose and potential outcomes are communicated transparently. All data is anonymized to protect both individual and organizational identities, and participants retain the right to withdraw at any time.

AN OVERVIEW OF STRATEGIC BUSINESS LEADERSHIP

Product marketing success is largely dependent on strategic business leadership, especially in the intricate and ever-changing world of emerging markets. Strategic business leadership encompasses a variety of skills and qualities that empower leaders to guide organizations through periods of opportunity, change, and uncertainty (Adeusi et al., 2024; Benjamin & Adeusi, 2024; Oladayo et al., 2023; Toromade et al., 2024). Businesses seeking success in emerging markets can gain valuable insights by understanding these critical characteristics and their impact on marketing performance. At its core, strategic business leadership involves the ability to establish a clear vision, make informed decisions, and inspire teams to achieve corporate objectives.

Vision, adaptability, decisiveness, and a deep understanding of market dynamics are essential qualities of strategic business leaders (Hough & Ogilvie, 2021). Visionary leaders clearly communicate an organization’s future direction, ensuring that marketing strategies align with long-term objectives and market opportunities. Adaptability is equally crucial, as it enables leaders to respond effectively to shifting consumer preferences, market conditions, and competitive challenges. Decisiveness allows executives to make swift, well-informed decisions, a necessity in the fast-changing and often unpredictable environments of emerging economies (Nadler & Tushman, 2022).

Strategic leadership plays a vital role in managing market volatility and uncertainty in emerging markets. Economic fluctuations, evolving customer expectations, and regulatory changes are common challenges that can influence product marketing strategies (Abdul-Azeez, Ihechere, & Idemudia, 2024; Nwosu, Babatunde, & Ijomah, 2024; Ucha, Ajayi, & Olawale, 2024). Strategic leaders mitigate these risks by implementing strong risk management practices and maintaining flexibility in their approach (Meyer & Skak, 2021). To make informed decisions that align with organizational goals and market realities, leaders must stay updated on local market trends, regulatory developments, and competitive landscapes.

Leadership styles significantly influence the effectiveness of marketing strategies and overall business performance. Transformational leadership has been shown to drive higher levels of innovation and marketing success by inspiring and motivating employees to prioritize organizational goals over personal interests (Bass & Riggio, 2021). Transformational leaders foster an environment that encourages creativity and strategic thinking, resulting in marketing strategies that resonate with diverse consumer segments (Chukwurah, Okeke, & Ekechi, 2024; Iyelolu & Paul, 2024; Oriji et al., 2023; Udeh et al., 2024).

Conversely, transactional leadership, which emphasizes maintaining standard procedures and performance through rewards and penalties, can be effective in ensuring operational efficiency but may limit an organization's ability to innovate and adapt to emerging market trends (Northouse, 2021). Given that emerging markets often feature diverse consumer bases and varying cultural norms, strategic business leaders in these regions must adopt a cross-cultural perspective. Successful leaders understand and leverage local cultural insights to tailor marketing strategies that align with local preferences and traditions (Kotter, 2021). Cultural competence enhances engagement with target audiences and makes marketing initiatives more relevant (Adesina, Iyelolu, & Paul, 2024; Ige, Kupa, & Ilori, 2024; Osundare & Ige, 2024).

Additionally, strategic leaders must incorporate data-driven decision-making into their marketing strategies. In emerging markets, where data availability and quality can vary, leaders need to implement robust analytics systems and employ agile methodologies to refine marketing strategies based on real-time insights (Bose & Chen, 2022). This approach allows businesses to swiftly adjust their marketing initiatives in response to changing consumer behaviors and market dynamics.

In conclusion, strategic business leadership is essential for effective product marketing in emerging markets. Leaders equipped with vision, adaptability, and decisiveness are better positioned to navigate market volatility and uncertainty (Ameyaw, Idemudia, & Iyelolu, 2024; Ige, Kupa, & Ilori, 2024; Raji, Ijomah, & Eyieyien, 2024). By embracing effective leadership styles, understanding local cultural dynamics, and leveraging data-driven insights, strategic leaders can develop and execute marketing strategies that capitalize on emerging market opportunities and drive business growth.

STRATEGIC LEADERSHIP PRACTICES IN EMERGING MARKETS

Emerging economies present a unique mix of opportunities and challenges that require specific strategic leadership techniques. Unlike established markets, emerging markets feature diverse consumer bases, evolving regulatory frameworks, rapid economic growth, and varying levels of infrastructure development. To navigate these complexities and drive sustainable success, leaders operating in these environments must adopt innovative, flexible, and adaptive strategies. The following are some of the most essential strategic leadership practices that contribute to success in emerging markets:

1. Flexibility and Adaptability

Emerging markets are often characterized by political, economic, and social instability. Strategic leaders in these regions emphasize adaptability to ensure that their organizations can respond swiftly to change. This flexibility may involve adjusting marketing strategies to align with new regulations, modifying product offerings to suit local consumer preferences, or adapting pricing models to account for inflation. Effective leaders cultivate agile teams and processes, enabling quick decision-making and responsiveness.

2. Localization of Goods and Services

Consumer behavior in emerging markets can differ significantly from that in developed nations, making it essential to understand and cater to local preferences. Leaders prioritize localization strategies that tailor products, services, and marketing approaches to align with the cultural and economic conditions of each region. This may include designing products suited to local tastes, implementing marketing campaigns that resonate with local audiences, or adjusting packaging sizes for affordability.

3. Building Relationships with Local Stakeholders

Establishing strong relationships with local stakeholders, including suppliers, government officials, and community leaders, is crucial in emerging markets. Strategic leaders prioritize stakeholder engagement to foster goodwill, navigate regulatory challenges, and build valuable local networks. These relationships provide insights into market dynamics, facilitate smoother operations, and lay the foundation for long-term success.

4. Talent Development and Retention

Attracting and retaining skilled talent can be a challenge in many emerging markets. Leaders view local talent as a long-term competitive advantage and invest significantly in its development and retention. Initiatives such as leadership training programs, skill development workshops, and career advancement opportunities help build a competent and loyal workforce. This focus not only addresses talent shortages but also strengthens organizational culture.

5. Innovative Solutions for Resource Constraints

Emerging markets often face significant resource limitations, including inadequate infrastructure, lower consumer purchasing power, and limited access to capital. Leaders in these markets support innovative and cost-effective solutions such as leveraging digital technology, forming strategic partnerships, and implementing lean business models. For example, low-cost product innovations and mobile banking solutions are common strategies that help businesses reach underserved customer segments more effectively.

6. Scenario Planning and Risk Management

Operating in emerging markets involves navigating political instability, economic volatility, and currency fluctuations. Strategic leaders proactively manage risks by conducting scenario planning and implementing contingency strategies. These measures may include developing crisis response plans, diversifying supply chains, and hedging against currency risks. By preparing for potential disruptions, leaders can safeguard their organizations from unpredictable market conditions.

7. Leveraging Technology for Competitive Advantage

Digital transformation plays a crucial role in business success in emerging markets. Strategic leaders use technology to expand market reach, enhance customer experiences, and optimize operations. Mobile platforms and e-commerce, for instance, help businesses overcome infrastructure challenges and connect with customers in remote areas. Leaders prioritize investments in digital channels, data analytics, and automation to improve operational efficiency and maintain a competitive edge.

8. Commitment to Long-Term Social Responsibility

Strategic leaders in emerging markets often emphasize corporate social responsibility (CSR) and the long-term impact of their businesses on local communities. Consumers increasingly value ethical corporate practices, and businesses that invest in local healthcare, education, and environmental sustainability earn greater trust and loyalty. Prioritizing social impact strengthens brand reputation and customer relationships, both of which are essential for sustained growth in emerging economies.

9. Fostering a Culture of Innovation and Resilience

Given the dynamic and unpredictable nature of emerging markets, organizations must cultivate a culture of innovation and adaptability. Strategic leaders encourage creativity and problem-solving at all levels, empowering employees to take risks and experiment with new ideas. A resilient corporate culture enables businesses to recover from setbacks and swiftly adjust to changing market conditions.

10. Data-Driven Decision-Making

With the growing availability of technology and data in emerging markets, strategic leaders are increasingly relying on data analytics to guide decision-making. By leveraging data to track market trends, monitor performance, and understand consumer behavior, leaders can make informed and effective strategic choices. Data analytics helps identify market opportunities, optimize pricing strategies, and develop targeted marketing campaigns.

By embracing these strategic leadership practices, businesses in emerging markets can navigate challenges, seize growth opportunities, and establish a strong market presence.

CONCEPTUAL FRAMEWORK:

This conceptual framework illustrates the relationship between strategic corporate leadership and the effectiveness of product marketing in developing countries. It aims to explain how specific leadership traits and behaviors influence key marketing outcomes and how these effects are shaped by the unique conditions of these markets.

1. Fundamental Structures

Strategic business leadership encompasses the skills, methods, and strategies executives use to guide a company toward achieving its marketing goals, particularly in dynamic and challenging environments like emerging markets.

Product marketing effectiveness is determined by how well a company positions, markets, and sells its products in a competitive industry. Metrics such as market penetration, customer engagement, brand loyalty, and revenue growth are commonly used to evaluate effectiveness.

2. Crucial Elements of Strategic Corporate Leadership

The main elements of strategic business leadership in developing markets include:

- **Flexibility and Adaptability:** The ability of leaders to respond quickly to shifts in customer preferences, legal frameworks, and market conditions.
- **Localization of Strategies:** Adapting product offerings and marketing strategies to local tastes, cultural nuances, and economic realities.
- **Stakeholder Engagement:** Building and maintaining strong relationships with regional stakeholders, such as government agencies, suppliers, and community organizations.
- **Talent Development:** Investing in the identification, training, and retention of skilled local employees to build an efficient and culturally aware workforce.
- **Innovation and Resourcefulness:** Implementing creative strategies to overcome resource constraints, such as lean and efficient distribution and marketing techniques.

3. Moderating Elements in Emerging Markets

Several factors unique to developing markets influence the impact of leadership strategies on product marketing. Within the framework, these elements act as moderators:

- **Economic Volatility:** Frequent changes in consumer purchasing power, inflation rates, and currency values.
- **Regulatory Complexity:** Strict or rapidly evolving laws affecting product distribution, marketing, and promotion.
- **Infrastructure Restrictions:** Challenges related to supply chains, digital connectivity, and transportation.
- **Cultural Diversity:** The need for targeted and culturally sensitive marketing strategies due to varying consumer preferences and societal norms.
- **Digital Adoption Levels:** Differences in digital penetration that affect the availability and effectiveness of marketing platforms and channels.

4. Outcomes of Product Marketing Effectiveness

The following key outcomes measure the effectiveness of strategic leadership-influenced product marketing strategies:

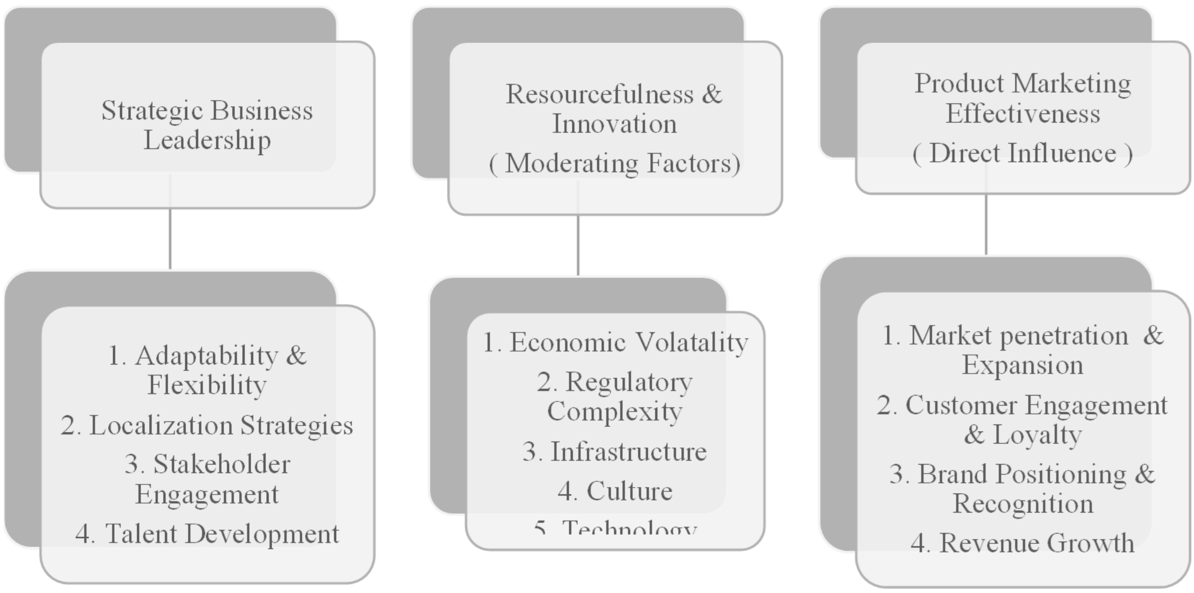
- **Market Penetration and Expansion:** The ability to grow market share in existing markets or enter new ones.
- **Customer Engagement and Brand Loyalty:** Consistent customer interest and repeat business, leading to long-term loyalty.
- **Revenue and Sales Growth:** Increases in revenue and sales volume driven by successful marketing efforts.
- **Improved Brand Positioning:** Strengthened brand recognition and a competitive market presence.

5. Hypothesized Relationships

The relationships within the framework can be expressed as hypotheses:

- **H1:** In developing countries, strategic business leadership positively impacts product marketing effectiveness.
- **H2:** The adaptability and flexibility of strategic leadership significantly enhance marketing success by enabling rapid responses to market changes.
- **H3:** In diverse emerging markets, localization strategies driven by strategic leadership improve consumer engagement and brand loyalty.
- **H4:** Strong stakeholder engagement led by strategic leadership enhances product promotion effectiveness by fostering trust and access to local networks.
- **H5:** Talent development programs driven by strategic leadership improve marketing effectiveness by enhancing workforce skills and cultural awareness.
- **H6:** Market factors, such as infrastructure constraints, regulatory complexity, and economic volatility, weaken the impact of strategic leadership on product marketing.

6. Conceptual Model Diagram



An Explanation of the Model

1. **Strategic Business Leadership:** This is the foundation and main factor affecting the success of product marketing.
2. **Leadership Components:** Adaptability, localization, talent development, innovation, and stakeholder involvement are all components that represent important leadership practices particularly relevant to growing markets.
3. **Moderating Factors:** The influence of strategic leadership techniques on marketing outcomes can be enhanced or diminished by certain market conditions, such as cultural and economic factors.
4. **Product Marketing Effectiveness Outcomes:** Certain outcomes, such as market

penetration, customer loyalty, brand positioning, and revenue growth, are used to gauge the effectiveness of marketing initiatives.

CONCLUSION

This conceptual framework illustrates how strategic leadership is essential to successful product marketing in emerging economies. By adjusting culturally appropriate, resource-conscious, and regionally responsive methods, the elements of strategic leadership, along with moderating considerations, direct marketing effectiveness. In order to achieve continuous growth and a competitive edge in developing economies, this model emphasizes the significance of dynamic leadership that is in line with market-specific conditions.

A distinct set of procedures that take into consideration the particular difficulties and expansion prospects that developing markets offer is necessary for strategic leadership to be successful in these areas. In order to successfully traverse the challenges of emerging markets and promote long-term corporate success, leaders should prioritize adaptability, localization, relationship-building, innovation, and social responsibility. These strategies help businesses not only take advantage of short-term market opportunities but also set them up for long-term success and adaptability in changing and dynamic situations.

This framework for design and methodology offers a thorough starting point for investigating how strategic business leadership affects marketing efficacy in emerging markets. The study aims to provide significant additions to the knowledge of how strategic leadership influences marketing success in intricate and changing contexts by fusing qualitative insights with case study data.

This is an example survey to investigate how strategic business leadership affects product marketing efficacy in emerging markets. Business executives, marketing managers, and other important stakeholders who can shed light on the connection between marketing results and strategic leadership are the target audience for this quiz.

This is a longer survey with over ten questions to get in-depth information about how strategic business leadership affects the success of product marketing in emerging countries.

DATA ANALYSIS

1. **Data-Driven Decision Making**

Leaders utilize data analytics to inform marketing strategies, ensuring decisions are based on solid evidence rather than intuition.

Companies that adopt data-driven leadership are 58% more likely to meet revenue goals, highlighting the importance of data in strategic planning.

By analyzing historical data and market trends, leaders can anticipate shifts and adjust marketing approaches accordingly.

2. **Alignment with Business Goals**

Strategic leaders ensure that marketing initiatives align with broader business objectives, enhancing overall effectiveness.

Defining clear Key Performance Indicators (KPIs) allows teams to measure success and adjust strategies based on performance metrics.

Mapping data projects to KPIs ensures that marketing efforts directly contribute to achieving business goals, such as increasing market share or improving customer satisfaction.

3. **Fostering a Data-Driven Culture**

Leaders promote a culture of data literacy within the organization, empowering employees to leverage data in their roles.

Training programs that enhance data skills lead to informed decision-making and improved collaboration across departments.

A shared understanding of data concepts enhances communication and teamwork, facilitating more effective marketing strategies.

4. **Leveraging Technology and Innovation**

Strategic leaders embrace advanced analytics and tools, such as predictive analytics and machine learning, to enhance marketing effectiveness.

These technologies enable businesses to forecast trends, streamline operations, and identify potential risks, allowing for proactive marketing strategies.

By integrating AI and automation, leaders can improve efficiency in marketing processes, enabling teams to focus on strategic initiatives rather than repetitive tasks.

5. **Understanding Local Market Dynamics**

In developing markets, leaders must adapt marketing strategies to local cultural, economic, and social contexts.

Data analysis helps identify unique customer preferences and behaviors, allowing for tailored marketing approaches that resonate with local audiences.

Engaging with local stakeholders and understanding their needs can lead to more effective product positioning and customer engagement strategies.

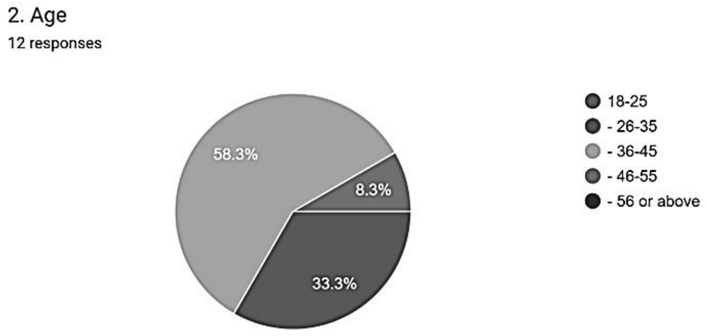
6. **Continuous Improvement and Feedback Mechanisms**

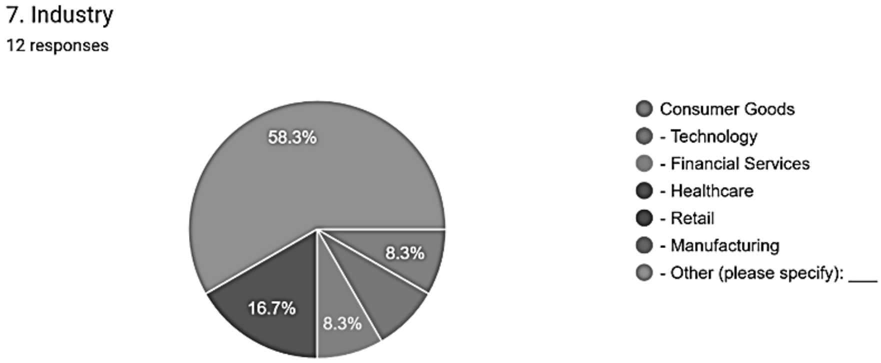
Implementing feedback loops allows organizations to refine their marketing strategies based on customer insights and market changes.

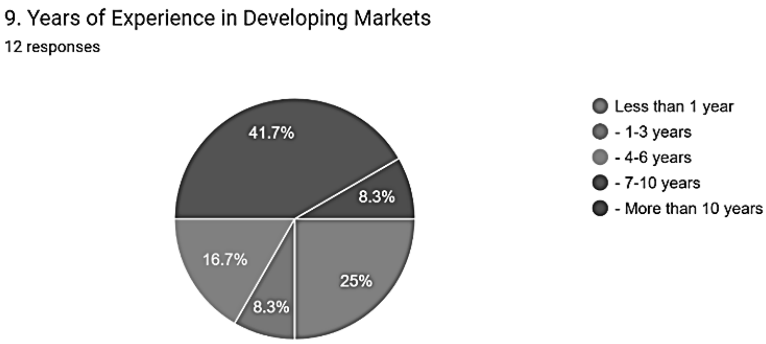
Regularly reviewing performance data and adjusting strategies ensures that marketing efforts remain relevant and impactful.

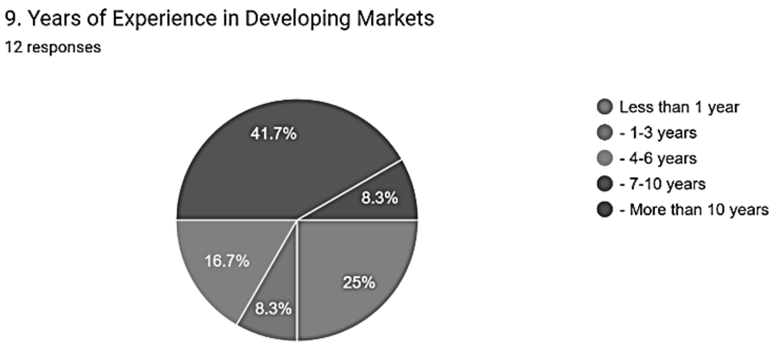
Leaders who prioritize continuous improvement foster an agile marketing environment that can quickly adapt to new challenges and opportunities.

Few Analysis charts representing questionnaire:









REFERENCES

1. Abdul, A. A., Babalola, F. I., Daraojimba, C., Oriji, O., & Abitoye, O. (2023). A review of how technology is helping to modernize accounting instruction for Nigerian students. *International Journal of Management & Entrepreneurship Research, 5*(12), 892–906.
2. Abitoye, O., Shonibare, M. A., Daraojimba, C., Onunka, T., & Oriji, O. (2023). An analysis of effective practical teaching strategies for improving financial literacy in Nigeria. *International Journal of Management & Entrepreneurship Research, 5*(12),

879–891.

3. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, A. E., & Adegbola, M. D. (2024). Advanced financial modeling methods for inventory cost reduction: An analysis of tactics and production success. *Journal of Finance & Accounting Research, 6*(6), 801–824.
4. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, A. E., & Adegbola, M. D. (2024). Increasing the effectiveness of product development through cross-functional team leadership: Advice and tactics from professionals in the field. *International Journal of Management & Entrepreneurship Research, 6*(5), 1733–1753.
5. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, M. D., & Adegbola, A. E. (2024). A theoretical overview and implications of quantum computing and financial risk management. *Journal of Computer Science and IT Research, 5*(6), 1210–1220.
6. Adeusi, K. B., Benjamin, L. B., Amajuoyi, P., Adegbola, M. D., & Adegbola, A. E. (2024). A review and novel methods for utilizing financial incentives to promote diversity. *International Journal of Applied Research in Social Sciences, 6*(5), 1037-1047.*
7. Adegoke, T. I., Akinrinol, O., & Ofodile, O. C. (2024). A study of the research on mortgage accessibility for underserved communities is presented in order to assess the fairness of credit scoring methods. *GSC Advanced Research and Reviews, 18*(3), 189–199.
8. Adegoke, T. I., Akinrinola, O., & Ofodile, O. C. (2024). A driver for resolving the injustices experienced by underprivileged groups in the United States is data analytics in mortgage and finance. *International Journal of Science and Research Archive, 11*(2), 338–347.
9. Adegoke, T. I., Akinrinola, O., & Ofodile, O. C. (2024). A thorough analysis of equity and transparent reporting in mortgage lending. *World Journal of Advanced Research and Reviews, 21*(3), 1020–1030.
10. Agu, E. E., Ijomah, T. I., Iyelolu, T. V., & Idemudia, C. (2024). Investigating the connection between improved brand loyalty and sustainable business practices. *International Journal of Management & Entrepreneurship Research, 6*(8), 2463–2475.
11. Akinsulire, A. A. (2012). *Maintaining a competitive edge in a small animation and film studio in a developing nation like Nigeria: A case study of Mighty Jot Studios* (Unpublished master's thesis). University of Manchester, Manchester, England.
12. Benjamin, L. B., Adeusi, K. B., Adegbola, A. E., Amajuoyi, P., & Adegbola, M. D. (2024). IoT has the potential to revolutionize supply chain management by providing real-time data and improved connection.
13. Benjami, L. B., Adeusi, K. B., & Amajuoyi, P. (2024). Predicting employee churn in high-stress industries with machine learning. *International Journal of Management & Entrepreneurship Research, 6*(5), 1702–1732.
14. Ekechi, C. C., Okeke, C. D., & Akinsanya, M. O. (2024). A conceptual framework for

compliance with data sovereignty and security in network engineering. *International Journal of Science and Research Archive, 11*(2), 1832–1847.

15. Ekechi, C. C., Okeke, C. D., & Akinsanya, M. O. (2024). IoT security paradigms in telecom networks: Conceptual difficulties and possible solutions. *Journal of Engineering Science and Technology*, *5*(4), 1431–1451.
16. Ekechi, C. C., Okeke, C. D., & Akinsanya, M. O. (2024). A conceptual analysis of the development of cyber resilience frameworks in network security. *Journal of Computer Science and IT Research*, *5*(4), 926–949.*
17. Ekechi, C. C., Okeke, C. D., & Akinsanya, M. O. (2024). SD-WAN technologies' theoretical foundations and real-world applications in telecommunications. *Journal of Computer Science and IT Research*, *5*(4), 950–971.
18. Ekechi, C. C., Okeke, C. D., & Akinsanya, M. O. (2024). A conceptual review of security protocols and their use in contemporary networks is presented in Virtual Private Networks (VPN). *Journal of Engineering Science and Technology, 5*(4), 1452–1472.
19. Ihechere, A. O., Abdul-Azeez, O., & Idemudia, C. (2024). SAP implementations' effects and strategies for achieving digital transformation in public sector organizations. *Journal of Computer Science and IT Research, 5*(7), 1521–1538.
20. Paul, P. O., Iyelolu, T. V., & Adesina, A. A. (2024). Optimizing business processes with advanced analytics: Techniques to boost efficiency and productivity. *World Journal of Advanced Research and Reviews, 22*(3), 1917–1926.
21. Udeh, C. A., & Ajayi, F. A. (2024). An analysis of employee well-being programs aimed at preventing burnout in the IT sector. *International Journal of Applied Research in Social Sciences*, *6*(4), 567–588.*
22. Udeh, C. A., & Ajayi, F. A. (2024). An analysis of successful and unsuccessful innovative hiring practices in the IT industry. *Advanced Research and Reviews in Magna Scientia*, *10*(2), 150–164.
23. Udeh, C. A., & Ajayi, F. A. (2024). Pathways to improvement in the marine industry's mental health and crew resilience procedures. *Advanced Biology and Pharmacy Magna Scientia*, *11*(2), 033–049.*
24. Toromade, A. S., Adepoju, A. A., & Oladeebo, J. O. (2019). An examination of the poverty profile and occupational risks among cassava processors in Oyo State, Nigeria. *Asian Journal of Advances in Agricultural Research*, *9*(1), 1–13.
25. Toromade, A. S., Adepoju, A. A., & Sanusi, W. A. (2018). Factors affecting southwestern Nigerian maize-based farmers' food security. *International Journal of Research in Agricultural Sciences*, *5*(4), 2348–3997.

IMPACT ON YOUNG INVESTOR'S BEHAVIOR, DECISION, AND SATISFACTION IN CAPITAL MARKET- AN EMPIRICAL ANALYSIS

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ABSTRACT

This research paper studies and analyzes Chennai's capital market, focusing on young investors' decisions, satisfaction, and behavior. The researcher examines the dynamic system of investing in the capital market in Chennai by young investors. A person's essential thinking significantly impacts the financial circumstances of young investors. Investment analysis at both hierarchical and structural levels has indicated that market and economic cycles play a crucial role in this context. Capital investment decisions are primarily geared toward long-term strategies.

On the other hand, young investors seek higher returns and consider adequate funding based on their investment needs. Participation in the capital market has greatly benefited young investors. This study reviews a sample of 51 participants, utilizing SPSS analysis to examine young investors' behavior, satisfaction, conduct, and decision-making for maximizing profits. Through SPSS analysis, the researcher presents frequency distribution, coefficients, linear regression, ANOVA analysis, descriptive analysis, bar charts, and other statistical tools. This study highlights the significance of investing in the capital market.

Keywords: *Behavior, Financial Knowledge, Investment Avenues, Purchasing Decision, Investor Satisfaction, Young Investors.*

INTRODUCTION

Investors engage in various investment choices, such as the money market, capital market, and other markets, to enhance their income flow. Saving and investment behavior in the capital market depends on government policies and political stability to maintain an open economy. A company's financial savings include a range of financial instruments, such as investments in stocks and mutual funds. This study examines various financial investment options with the aid of financial returns and business growth.

In India, young investors are observed to have substantial financial knowledge, enabling them to contribute to market growth. According to Bhoopal and Prabakaran (2017), the rapid expansion of the stock market can lead to the overall development of the financial system. Young individuals take advantage of this opportunity to enhance their financial standing. Additionally, radical and transformative changes have contributed to significant economic growth. The decision-making process and satisfaction of young investors are also directly influenced by stock market performance.

The preferences of the younger generation have evolved in recent years, making this a crucial subject of study. Mutual funds, commodities, and the equity market are among the preferred investment choices for young investors. Furthermore, individuals in the age groups of 18–20, 21–25, 26–30, and 31–35 are considered to make diverse investment decisions. Land, gold, and post office deposits are also included in the investment portfolios of young investors. This study examines the decision-making strategies of young investors when investing in the capital market.

REVIEW OF LITERATURE

Investment analysis is considered one of the primary topics in this field, as it depends on an individual's financial situation. Portfolio performance and the adjustments required for changes are additional aspects that influence a person's strategic thinking. Top-down and bottom-up investment analyses demonstrate that financial and market cycles are the most essential factors in this context. Bottom-up investing adopts a variety of microeconomic strategies that are distinct from macroeconomic or global approaches. Conversely, top-down investment analysis is regarded as a global approach. An individual's capital investment decisions align with their long-term strategy. According to Kumar and Kumar (2018), such investments fit within a person’s long-term financial plan. A significant increase in fixed assets is observed to influence a business’s breakeven point, requiring the firm to generate more sales before achieving profitability.

Young investors also have a different perspective, believing that a positive return on investment can lead to further financial growth. Investors also consider the availability of sufficient funding to acquire assets they intend to purchase (Vadugapalayam et al., 2020). The entity cost of capital is also observed to be low enough to permit investments that may yield a positive return. The replacement of existing assets also plays a role in investment decisions. Thus, it can be stated that strategic thinking regarding investments may enhance a company’s competitive advantage alongside benefiting investors.

Jorgenson & Fraumeni (1989) presented a study introducing new measures of the benefits of education. These measures are based on the enduring impact of formal education on human capital. They define human capital as the sum of lifetime work earnings for all individuals in the U.S. population. These earnings include the value of time spent working and the value of non-market activities, such as parenting and leisure. Their estimates of lifetime earnings are derived from extensive data on wage income, which has been further expanded to include the value of non-market activities. Their findings suggest that estimates of investment in education and human capital significantly exceed those based solely on educational expenditures.

Munawar, N. A., and Mahaputra, M. R. (2022) examined stocks as an essential and widely popular financial instrument in companies and capital markets. Shares are intended for companies that have launched an initial public offering (IPO) in the financial market to raise capital from investors for business expansion. The research method used in this study is descriptive and qualitative. The study's findings highlight that: 1) Education is linked to youth interest in stock investment, 2) Advertising influences youth interest in stock investment, and 3) Motivation plays a crucial role in youth interest in stock investment.

Obloberdievna, D. S., and Nematjonovna, M. S. (2022) investigated the relationship between education and financial productivity, as well as individual income growth. Their study suggests that the impact of education primarily depends on its quality. However, various indicators of educational quality do not function uniformly. The study examines global disparities in education quality, highlighting that even in countries with high enrollment rates and substantial spending on education, the effects of investment in education vary significantly. Additionally, the study presents insights based on educational data from the past decade.

Prasad & Das (2019) conducted research to identify the investment preferences of young investors aged 21–35. They observed that investment attitudes vary among individuals within the same age group. The researchers analyzed various investor perceptions through structured questionnaires and interviews. The study was conducted in the Dibrugarh and Tinsukia districts of Assam. Primary data was collected using a simplified questionnaire with a sample size of 119. The study's key finding was that young investors tend to favor investment avenues such as the equity market and mutual funds.

Kummeta, Mary, and Reddy (2023) explored investment awareness and the investment avenues of young investors to assess their level of awareness and risk perception. Data was collected from respondents in the twin cities of Hyderabad and Secunderabad. The primary objective was to analyze the relationship between investment awareness and risk perception among young investors regarding different investment choices. Primary data was gathered through a structured questionnaire. The study concluded that advancements in technology have provided young investors with better access to information regarding new investment opportunities, enabling them to make informed decisions about their investment patterns and associated risk levels.

IMPACT OF CAPITAL MARKET AND YOUNG INVESTORS' GROWTH IN INDIA

Capital markets influence firms' decision-making by providing them with the means to raise asset income for their needs. There are typically two types of markets: primary and secondary. The market plays a crucial role in economic development by mobilizing savings from individuals or banks. Long-term investment benefits have been observed in these cases, as they highlight the significance of investment decisions within an open economy (Ganesan and Bhuvaneswari, 2017). Various case studies in this context suggest that behavioral finance primarily targets stock market investors who do not always align with traditional finance and psychology. Young investors play a significant role in the country's GDP.

Young investors also contribute substantially, particularly in mutual funds and equity markets, which serve as major avenues for maximizing returns. According to Pandey and Vishwakarma (2020), investors tend to gravitate toward the private sector, as it offers substantial and quality returns on investment. The role of young investors is widely recognized, typically encompassing individuals up to 35 years of age. They exhibit a well-structured distribution concerning liquidity and capital allocation. Their decision-making ability is highly prominent, with key investment factors including capital appreciation, tax benefits, liquidity, returns, and security. Regular income is considered the primary investment objective in this scenario.

Additionally, investment avenues for young women indicate that investments may be beneficial when they yield quality returns (Dhawan and Mehta, 2019). Previous research further highlights that the financial profile of young investors is the foremost crucial factor in this context.

Young investors often rely on reasonable return expectations and avoid chasing high returns. Realistic return expectations are another fundamental aspect in this context, as they depend on the market's potential costs (Priyanka and Tripathi, 2019). Market costs also affect financial investors because higher supplier prices may lead producers to make strategic decisions regarding production. These price fluctuations directly impact young investors, especially when costs are observed to rise.

RESEARCH METHODOLOGY

An explanatory research study has been conducted to examine the decision-making style of young investors in Chennai. A gap has also been addressed in this context to identify the level of satisfaction among young investors. As this study relies on primary data from young investors, it was not possible to reach all respondents personally. Therefore, a structured questionnaire was prepared using Google Forms.

The sample size for the study consists of 51 respondents, all from Chennai. A structured questionnaire was distributed to the respondents to understand and analyze the various factors influencing young investors' behavior, decision-making, and satisfaction regarding investments in the capital market. A cross-sectional study was implemented to assess the baseline preferences and investment desires of young investors. The sample size is 51, based on eight close-ended survey questions.

Primary quantitative data analysis has been used in this study to evaluate the aspirations of young individuals in the capital market. IBM SPSS software was utilized for data analysis. Descriptive statistics, correlation, linear regression, and Cronbach's alpha were employed to analyze the data and complete this research. Decision-making and satisfaction levels of young individuals have also been discussed in this study.

The research focuses on analyzing the following objectives:

1. To analyze whether the capital market is helpful for investment.
2. To examine how investing in the capital market enhances young investors.
3. To assess whether investing is secure and accessible for young investors.
4. To understand whether the performance of investors is reliable.
5. To analyze whether young investors' behavior reflects confidence in the capital market.
6. To determine whether investing in the capital market is manageable for young investors, highlighting their investment decisions.
7. To evaluate whether strategic thinking among investors stimulates investment decisions.
8. To analyze whether investors’ decisions, satisfaction, and behavior are declining in the capital market.

DATA ANALYSIS, FINDINGS, AND DISCUSSION

The data analysis section is considered the fundamental part of the research, as it determines the key findings. Additionally, the reasoning and learning aspects of the study can also be established in this context. Repetitive cases may be observed frequently, but they should be controlled by eliminating them.

The analysis was conducted using IBM SPSS software by performing the following:

1. Frequency Distribution
2. Correlation
3. Linear Regression
4. Cronbach's Alpha
5. Chart

1. Frequency distribution

Statistics

		Capital market is helpful for investment	Investing in the capital market is enhance the young investors	Investing is secure and accessible for the young investors	The performance of the investors is reliable	The young investors behaviour look confident in capital marketn	The importance of investing in the capital market is manageable for the young investors highlighting their investment decision	Strategic thinking of investor shows investment decision	Investor's decision, satisfaction and also behaviour has been dwindling in capital market	Agegroup
N	Valid	51	51	51	51	51	51	51	51	50
	Missing	0	0	0	0	0	0	0	0	1
Mean		3.25	3.39	2.59	2.55	3.41	2.57	3.49	3.02	1.3000
Median		4.00	4.00	3.00	3.00	4.00	3.00	4.00	4.00	1.0000
Mode		4	4	4	4	4	3	4	4	.00
Std. Deviation		1.055	.918	1.431	1.376	.983	1.237	.925	1.288	1.18235
Variance		1.114	.843	2.047	1.893	.967	1.530	.855	1.660	1.398
Skewness		-1.708	-1.846	-.505	-.562	-1.845	-.560	-2.103	-1.148	.232
Std. Error of Skewness		.333	.333	.333	.333	.333	.333	.333	.333	.337
Kurtosis		2.545	3.588	-1.206	-.893	2.916	-.579	4.310	.021	-1.469
Std. Error of Kurtosis		.656	.656	.656	.656	.656	.656	.656	.656	.662
Minimum		0	0	0	0	0	0	0	0	.00
Maximum		4	4	4	4	4	4	4	4	3.00
Sum		166	173	132	130	174	131	178	154	65.00

Figure 1: Frequency distribution of the present study

(Source: Self-developed in SPSS)

The above results show the frequency distribution of the present study. The mean values of the study are 3.25, 3.39, 2.59, 2.55, 3.41, 2.57, 3.49, and 3.02. The highest mean value is 3.49, observed in question number 7. The skewness value is highest for question number 6, with a value of -2.103. Consequently, it can be said that the value largely depends on the kurtosis value, which has the highest recorded value of 4.310.

In statistics, frequency distribution is considered one of the key aspects in determining the number of observations within a given interval. In this case, the highest distribution is observed for question number 7. The results indicate a significant relationship between strategic thinking and investment decision-making among investors. Additionally, the importance of investing in the capital market is seen as manageable for young investors, highlighting its impact on their investment decisions.

2. Correlation

Correlations

		Capital market is helpful for investment	Investing in the capital market is enhance the young investors	Investing is secure and accessible for the young investors	The performance of the investors is reliable	The young investors behaviour look confident in capital marketn	The importance of investing in the capital market is manageable for the young investors highlighting their investment decision	Strategic thinking of investor shows investment decision	Investor's decision, satisfaction and also behaviour has been dwindling in capital market
Capital market is helpful for investment	Pearson Correlation	1	.947**	.866**	.880**	.937**	.883**	.915**	.908**
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000	.000
	N	51	51	51	51	51	51	51	51
Investing in the capital market is enhance the young investors	Pearson Correlation	.947**	1	.871**	.871**	.947**	.874**	.947**	.889**
	Sig. (2-tailed)	.000		.000	.000	.000	.000	.000	.000
	N	51	51	51	51	51	51	51	51
Investing is secure and accessible for the young investors	Pearson Correlation	.866**	.871**	1	.961**	.848**	.937**	.821**	.905**
	Sig. (2-tailed)	.000	.000		.000	.000	.000	.000	.000
	N	51	51	51	51	51	51	51	51
The performance of the investors is reliable	Pearson Correlation	.880**	.871**	.961**	1	.850**	.965**	.822**	.930**
	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000	.000
	N	51	51	51	51	51	51	51	51
The young investors behaviour look confident in capital marketn	Pearson Correlation	.937**	.947**	.848**	.850**	1	.856**	.961**	.893**
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000	.000
	N	51	51	51	51	51	51	51	51
The importance of investing in the capital market is manageable for the young investors highlighting their investment decision	Pearson Correlation	.883**	.874**	.937**	.965**	.856**	1	.818**	.922**
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000	.000
	N	51	51	51	51	51	51	51	51
Strategic thinking of investor shows investment decision	Pearson Correlation	.915**	.947**	.821**	.822**	.961**	.818**	1	.882**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000		.000
	N	51	51	51	51	51	51	51	51
Investor's decision, satisfaction and also behaviour has been dwindling in capital market	Pearson Correlation	.908**	.889**	.905**	.930**	.893**	.922**	.882**	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	
	N	51	51	51	51	51	51	51	51

**. Correlation is significant at the 0.01 level (2-tailed).

Figure 2: Correlation

(Source: Self-developed in SPSS)

The above figure analyzes the correlation in the present study. In statistical examination, correlation is considered one of the main statistical analyses that help determine the relationship between factors. The relationship between variables is indicated by their movement. The Pearson correlation value is highest for question number 6, with a value of 0.983. All factors have a direct relationship with one another.

It can also be said that changes in the variables are entirely determined by their movement relative to each other. Furthermore, it is evident that all factors in this study exhibit a positive relationship with one another. Hence, the Pearson correlation is significant at the 0.01 level, which is observed as one-tailed. The results indicate a positive impact of investing in the capital market, making it manageable for young investors while highlighting its influence on their investment decisions. Additionally, all factors in this study show a positive correlation with one another.

3. Linear regression

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.954[a]	.909	.901	.331	.909	115.316	4	46	.000

a. Predictors: (Constant), Investor's decision, satisfaction and also behaviour has been dwindling in capital market, Strategic thinking of investor shows investment decision, The importance of investing in the capital market is manageable for the young investors highlighting their investment decision, The young investors behaviour look confident in capital marketn

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	50.636	4	12.659	115.316	.000[b]
	Residual	5.050	46	.110		
	Total	55.686	50			

a. Dependent Variable: Capital market is helpful for investment

b. Predictors: (Constant), Investor's decision, satisfaction and also behaviour has been dwindling in capital market, Strategic thinking of investor shows investment decision, The importance of investing in the capital market is manageable for the young investors highlighting their investment decision, The young investors behaviour look confident in capital marketn

Figure 3: Linear regression

(Source: Self-developed in SPSS)

This figure discusses linear regression, which is divided into the model summary and ANOVA. The model summary and ANOVA of the present study are entirely associated with the changes observed in the case of R square and the residual. In the model summary, the R square value is 0.909, and the adjusted R square value is 0.901. The df1 and df2 values of the present study are observed to be 4 and 46, respectively. The F change in this situation is 115.316. The significance value of the F change is 0.000, indicating that the analysis is statistically significant.

The ANOVA figure presents the sum of squares, regression, and residual values with the aid of the mean square value. The sum of squares for regression is 50.636, while the residual value in the present study is 5.050. The total sum of squares is 55.686. The mean square value for the present study is 12.659. As the significance (Sig) value is observed to be 0, it can be concluded that the analysis is statistically significant.

4. Cronbach alpha

Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.982	.986	8

Figure 4: Cronbach alpha

(Source: Self developed in SPSS)

This figure examines the Cronbach's alpha of the present study. Cronbach's alpha in this study is used to determine the internal consistency of factors. The internal consistency of variables largely depends on the movement of the variables to a sufficient degree. The Cronbach's alpha value for this study is 0.982. In the case of standardized items, the Cronbach's alpha value is observed to be 0.986, with the number of items being 8. Consequently, it can be said that all the factors exhibit a high level of internal consistency. The results indicate that the investor's decision, satisfaction, and behavior have been dwindling in the capital market.

5. Pie chart

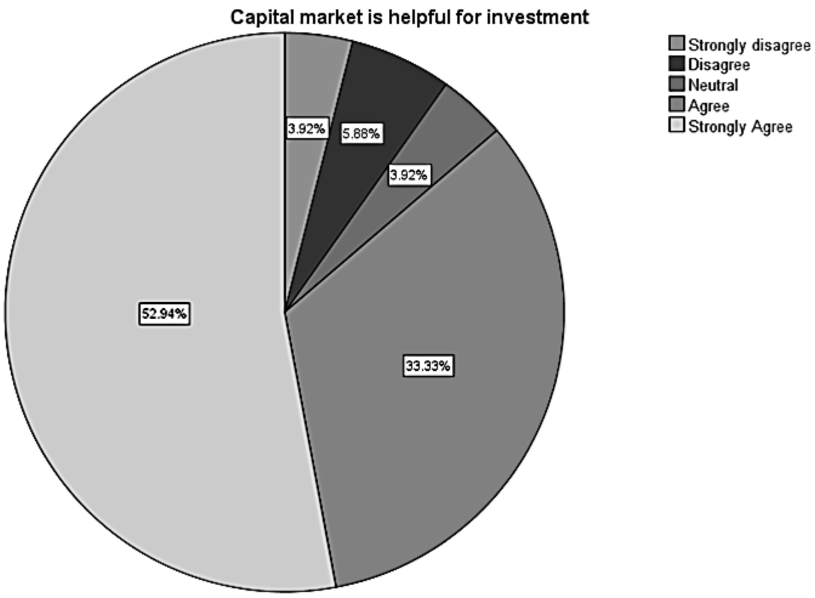

Figure 5: Pie chart for capital market

(Source: Self-developed in SPSS)

The above pie chart examines the capital market for investment. **3.92%** of the respondents in the present study have strongly disagreed with the statement. On the other hand, **52.94%** of the respondents have strongly agreed with the statement in this regard. In addition, it can also be said that the capital market is one of the most beneficial places for making investments. Young investors may benefit after investing in the capital market.

CONCLUSION

The above study is an observational examination of the decisions, satisfaction, and behavior of young investors in the Chennai area of Tamil Nadu. The experimental analysis has highlighted young investors' behavior, decision-making strategies, and satisfaction with the capital market in Chennai, Tamil Nadu.

In this study, the researcher has utilized SPSS analysis to examine the subject. A close-ended survey questionnaire was used to analyze young investors' behavior. According to the study, young investors have played a significant role in the nation's Gross Domestic Product (GDP). Through SPSS analysis, with the assistance of statistical methods and bar charts, this research study has demonstrated young investors' behavior and public perceptions regarding investment in the capital market.

REFERENCES

1. Ainia, N. S. N., & Lutfi, L. (2019). The influence of risk perception, risk tolerance,

overconfidence, and loss aversion towards investment decision making. *Journal of Economics, Business, & Accountancy Ventura, 21*(3), 401-413.

2. Bhoopal, M., & Prabakaran, G. (2017). Impact of stock market reforms on investors' confidence and behaviour in the Indian stock market: A case study of Tamil Nadu. *MUDRA: Journal of Finance and Accounting, 4*(2), 167-184.
3. Dalalyan, A. S., & Karagulyan, A. (2019). User-friendly guarantees for the Langevin Monte Carlo with inaccurate gradient. *Stochastic Processes and their Applications, 129*(12), 5278-5311.
4. Dhawan, D., & Mehta, S. K. (2019). Saving and investment pattern: Assessment and prospects. *ACRN Journal of Finance and Risk Perspectives, 8*, 123.
5. Ganesan, R., & Bhuvaneswari, A. (2017). A study on the role of behavioral finance among young entrepreneurs. *International Journal of Innovative Research and Advanced Studies, 4*(1), 184-188.
6. Jabłoński, M. (2018). Value migration to the sustainable business models of digital economy companies on the capital market. *Sustainability, 10*(9), 3113.
7. Kumar, P., & Kumar, S. (2018). A conceptual review on investment behavior of women. *International Journal of Scientific Development and Research (IJSDR, 3)*(9), 103-106.
8. Lee, I., & Shin, Y. J. (2018). Fintech: Ecosystem, business models, investment decisions, and challenges. *Business Horizons, 61*(1), 35-46.
9. Pandey, S. K., & Vishwakarma, A. (2020). A study on investment preferences of young investors in the city of Raipur, Chhattisgarh, India. *PalArch's Journal of Archaeology of Egypt/Egyptology, 17*(9), 9757-9768.
10. Priyanka, J., & Tripathi, L. K. (2019). Investment behaviour: An analytical review. *Advances in Management, 12*, 1.
11. Vadugapalayam Rangasamy, L., Sivananthan, S., & Muthu, R. (2020). A study on the residential building construction information, thermal sensation, and the behavior of households in Tamil Nadu state–A questionnaire survey. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-21.
12. Vijayalakshmi, P. (2019). Irrational behavior of individual household investors: Does cognitive bias influence investment decision? *Journal of Xi'an University of Architecture & Technology, XI*(XII), 481-503.
13. Ziemssen, T., & Schulze-Topphoff, U. (2021). The change of fingolimod patient profiles over time: A descriptive analysis of two non-interventional studies PANGAEA and PANGAEA 2.0. *Journal of Personalized Medicine, 11*(6), 561.

A STUDY ON FINANCIAL PERFORMANCE ANALYSIS OF HERO MOTOR CORPORATION LIMITED

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ABSTRACT

The current study investigates the financial performance of Hero Motor Corporation Limited. Companies assess their performance over previous years through financial analysis, recognizing their strengths and weaknesses and working to improve them. This financial analysis was conducted using the balance sheet and profit and loss account for five years, from 2019 to 2024. Secondary data was used for this analysis, sourced from the annual reports of Hero Motor Corporation Limited. Assessing financial performance is crucial to understanding where the business stands in the market and how it can strengthen future growth and financial stability.

Keywords: *Ratio analysis, profitability ratios, liquidity ratio, solvency ratio.*

I. INTRODUCTION

A financial statement is an official record of a company's financial transactions and its market position in the business. It is prepared in a clear and structured format for ease of understanding. In the preparation of the final accounts of a firm, financial statements display the net results for a given year. They play a vital role in helping stakeholders understand the firm's performance for the given year. These stakeholders include trade creditors, shareholders, investors, employees, management, and the government. Understanding financial performance is essential, as it influences business decision-making. Financial statement analysis gathers information from financial accounts to identify a company's operating and financial characteristics. Such research aims to ascertain the effectiveness and performance of the company's management, as reflected in its financial records and reports.

II. STATEMENT OF THE PROBLEM

A financial performance analysis accurately establishes the relationship between the items on the balance sheet and the profit and loss account to identify the company's strengths and weaknesses. A well-planned capital structure, investments, and distribution are necessary for the firm to operate efficiently. Any business that does not follow good cost-controlling practices and fails to use scientific tools for distribution and investment when managing funds will only survive in the short term. A timely evaluation of the firm's performance is important, as finance serves as an enterprise's lifeline and primary engine. This study is being carried out to gain insight into the financial position and performance of Hero Motor Corporation Limited.

III. OBJECTIVES

1. To analyze the profitability, liquidity, and solvency position of Hero Motor Corporation Limited.
2. To provide findings and suggestions to enhance performance.

IV. SCOPE OF THE STUDY

This study is based on the accounting information of Hero Motor Corporation Limited. It covers the period from 2019-20 to 2023-24 for analyzing financial statements such as income statements and balance sheets. The scope of the study involves various factors that affect the company's financial status. The data from the past five years are taken into account for the study, and performance is compared within these periods.

V. RESEARCH METHODOLOGY

Nature of Data

The data needed for the study were gathered from secondary sources such as annual reports, journals, the internet, and other relevant sources.

Tool Used

Ratio analysis

Period of Study

This study covers a period of five years (2019-2024) to assess the financial performance of the company.

VI. LIMITATIONS OF THE STUDY

1. The company's overall profitability may not be accurately reflected, as the study examines only the latest five years of financial documents.
2. This study does not reflect the current situation, as financial statements used for financial analysis are created using the going concern concept.
3. It considers only financial aspects. Human behavior, interpersonal communications, and other non-financial factors are not taken into account.

VII. REVIEW OF LITERATURE

Dewan MD Zahurul Islam (2020), in a study on the financial performance of SMEs, suggests that entrepreneurial efficacy can help entrepreneurs stay motivated and work diligently toward their goals. This, in turn, enables them to maintain their financial performance even during the current pandemic.

Dr. Shobha Edward (2019) conducted a study titled "Financial Performance Analysis with Reference to ITC Limited, Chennai." The primary objective of this study was to evaluate the financial situation of the company. The study concludes that the company has an excellent liquidity position and does not delay its obligations to creditors and loan providers.

Table-1 Liquidity ratios for 2019-2024

Current ratio = Current assets/ Current liabilities

Quick ratio = Current assets-Stock / Current liabilities

Cash earnings retention ratio = Net Income- Dividends / Net income X 100

Financial years	Current ratio	Quick ratio	Cash earnings retention ratio
2019-2020	1.50	1.28	42.33
2020-2021	1.61	1.35	43.99

2021-2022	1.99	1.77	39.22
2022- 2023	1.79	1.55	47.88
2023-2024	2.08	1.81	56.48
Average	1.794	1.552	45.98

From the given data, we can infer that the current ratio has fluctuated over the years, ranging from 1.50 to 2.08. The average current ratio over the five-year period is 1.794. This overall data suggests that the company has efficiently paid its short-term liabilities over the last five years.

The quick ratio has also fluctuated over the five-year period, with values ranging from 1.28 to 1.81. The average quick ratio for the period is 1.552, indicating that the company has had enough liquid assets to meet its short-term obligations on average.

The average cash retention ratio over the five-year period is 45.98, suggesting that the company has had enough cash and cash equivalents to cover 45.98% of its short-term liabilities on average.

Looking at the trend over the five-year period, except for the COVID period (2021-22), the cash ratio increased from 42.33 to 56.48. This suggests that the company's cash position improved significantly from 2019 to 2024.

Table-2 Solvency ratios for 2019-2024

Debt to equity ratio = Total debt/ total equity

Debt to asset ratio = Total liabilities / total assets

Interest coverage ratio = Earnings before interest and taxes/ Interest expense X100

Financial years	Debt to equity ratio	Debt to assets ratio	Interest coverage ratio
2019-2020	0	0.246	81.24
2020-2021	0	0.314	44.46
2021-2022	0	0.273	75.33
2022- 2023	0	0.282	84.94
2023-2024	0	0.297	84.60
Average	0	0.2824	74.114

Table-3 Profitability ratios

Return on assets= Net income/ total assets X 100

Return on equity = Net income/ share holders equity X 100

Assets Turnover ratio = Revenue/ total assets X 100

Earnings per Share= Net income –Dividend to preference shareholders/ Average outstanding share

Net profit margin = Net profit/ total revenue X 100

Profit before tax margin = Profit before tax/ total revenue X 100

Financial years	Return on assets	Return on equity	Assets Turnover ratio	Earnings per Share	Net profit margin	Profit before tax margin
2019-2020	18.49	25.25	148.69	182.15	12.39	15.64
2020-2021	12.63	18.92	134.04	146.07	9.63	12.58
2021-2022	10.30	14.62	1.31	115.96	8.55	11.02
2022-2023	11.74	16.87	1.48	140.62	8.18	11.30
2023-2024	14.31	21.15	1.51	187.36	10.22	13.78
Average	13.494	19.362	57.406	154.432	8.194	12.864

The return on assets has been positive in all five years. The average return on assets ratio for the five-year period is 13.494, indicating that, on average, the company is generating insufficient profit from its assets. The return on assets ratio is highly volatile, suggesting that the company needs to focus on consistent improvement in asset performance to generate profit more efficiently.

The average return on equity ratio for the five years is positive at 19.362, which implies that, on average, the company is able to generate an excellent return on its shareholders' investment.

The asset turnover ratio has fluctuated significantly over the past five years, ranging from 1.51 to 148.69. The average asset turnover ratio is 57.406. It can be inferred that the company's ability to utilize its assets to generate revenue has varied significantly over the past five years, making it important for the company to monitor this metric closely.

The average value of earnings per share (EPS) is 154.432. The positive EPS indicates the company's profit-making ability, but with fluctuations. The maximum EPS was generated in the last year.

The average net profit margin is 8.194, which is slightly greater than bank fixed deposit rates, indicating the company's inability to grow at a faster pace.

The profit before tax margin has been fluctuating, indicating that the company is struggling to grow its profits over the given period.

IX. FINDINGS

1. The average current ratio over the five-year period is 1.794, which is stable and excellent. This data confirms that the company has been efficiently paying its short-term liabilities over the last five years.
2. The average quick ratio for the period is 1.552, indicating that the company has had enough liquid assets to meet its short-term obligations on average.
3. The average cash retention ratio over the five-year period is 45.98. The company's cash position improved significantly from 2019 to 2024.
4. The debt-equity ratio is zero, which suggests that the company is debt-free and fully dependent on its own finances.
5. The debt-to-asset ratio indicates that the company has maintained a consistent financing

structure over the past five years and has not significantly increased its level of leverage.

6. The average interest coverage ratio of the company over the given period is 74.114, indicating that the company's earnings were more than sufficient to cover its interest expenses.
7. The average return on assets ratio for the five-year period is 13.494, indicating that, on average, the company is generating insufficient profit from its assets. The return on assets ratio is highly volatile, suggesting that the company needs to focus on consistent improvement in asset performance to generate profit more efficiently.
8. The average return on equity ratio for the five years is positive at 19.362, implying that, on average, the company is able to generate an excellent return on its shareholders' investments.
9. The average asset turnover ratio is 57.406. It can be inferred that the company's ability to utilize its assets to generate revenue has varied significantly over the past five years, making it important for the company to monitor this metric closely.
10. The average value of earnings per share (EPS) is 154.432. The positive EPS indicates the company's profit-making ability, but with fluctuations.
11. The average net profit margin is 8.194, which is slightly greater than bank fixed deposit rates, indicating the company's inability to grow at a faster pace.
12. The profit before tax margin has been fluctuating, suggesting that the company is struggling to grow its profits over the given period.

X. SUGGESTIONS

Improve Profitability

The company should enhance its profitability by adopting the latest technology in manufacturing scooters according to consumer specifications.

Improve Efficiency of Assets

The company should utilize its assets efficiently to their maximum capacity to achieve higher returns.

XI. CONCLUSION

The company's overall performance was good, but it has failed to grow at a faster rate. It needs to improve profitability and asset performance to enhance its growth.

REFERENCES

1. Islam, D. M. Z. (2020). A study on financial performance of SMEs. *Journal Name*, *29*(3), 587-593.
2. Edward, S. (2019). A study on financial performance analysis with reference to ITC Limited, Chennai. In *Proceedings of the 8th International Conference on Digital Outreach and Future of Management Practices – 2019*.

INFLUENCE OF SOCIAL MEDIA ON CONSUMER BEHAVIOUR TOWARDS ORGANIC PRODUCTS

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ABSTRACT:

The rise of social media has transformed the landscape of consumer behavior, particularly in the importance of organic products. This study investigates the impact of social media on consumers' attitudes, perceptions, and purchasing decisions regarding organic products. By analyzing data from surveys, focus groups, and social media analytics, this research aims to understand how social media platforms influence consumers' awareness and knowledge of organic products, shape their attitudes, and drive their purchasing behavior. The findings suggest that social media serves as a critical platform for disseminating information and educating consumers about the benefits of organic products. Influencer endorsements, user-generated content, and targeted advertisements significantly enhance consumer engagement and trust in organic brands. Moreover, social media facilitates community building and peer recommendations, further reinforcing positive attitudes toward organic products. This study highlights the pivotal role of social media in shaping consumer behavior and offers valuable insights for marketers and organic product companies to strategize their social media campaigns effectively. Understanding these dynamics can help stakeholders foster more informed and sustainable consumer choices in the growing market for organic products.

Keywords: *Social Media, Consumer Behavior, Organic Products, Influencer Marketing, Social Media Analytics, Sustainable Consumer Choices, Marketing Strategies.*

INTRODUCTION

In recent years, there has been a significant shift in consumer preferences toward healthier and more sustainable lifestyle choices, leading to a growing demand for organic products. Organic products, which are produced without synthetic pesticides, fertilizers, and genetically modified organisms, are perceived to offer numerous health and environmental benefits. This increasing consumer interest in organic products has coincided with the rapid expansion of social media as a powerful tool for information dissemination, marketing, and consumer engagement.

Social media platforms such as Facebook, Instagram, Twitter, and YouTube have transformed the way consumers interact with brands and access information. These platforms offer a unique opportunity for brands to connect with a broad audience, engage in two-way communication, and influence consumer behavior through targeted content, influencer partnerships, and user-generated content. As a result, social media has become an essential component of marketing strategies for organic product brands aiming to reach and influence health-conscious consumers.

The intersection of social media and consumer behavior toward organic products presents an intriguing area of study. Understanding how social media influences consumer awareness, attitudes, and purchasing decisions regarding organic products can provide valuable insights for marketers, policymakers, and researchers. It can also help in designing effective marketing strategies that resonate with the values and preferences of the target audience.

This study aims to explore the influence of social media on consumer behavior toward organic products. Specifically, it seeks to examine how social media platforms contribute to consumer awareness and knowledge of organic products, shape attitudes and perceptions, and ultimately affect purchasing intentions and behaviors. By analyzing these aspects, the study intends to shed light on the effectiveness of social media as a marketing tool for organic products and provide recommendations for leveraging its potential to promote sustainable and healthy consumer choices.

In the following sections, we will review the existing literature on social media's impact on consumer behavior and organic product consumption, outline the methodology used for data collection and analysis, present the findings, and discuss their implications for marketing strategies and future research. Through this comprehensive examination, we hope to contribute to a deeper understanding of the dynamic relationship between social media and consumer behavior in the context of organic products.

RESEARCH OBJECTIVES

1. Primary Objective: To assess the impact of social media on consumer purchasing decisions regarding organic products.
2. To identify the most influential social media platforms for organic product marketing and consumer engagement.
3. To examine the role of social media influencers in shaping consumer perceptions of organic products.
4. To investigate how social media affects consumer awareness and understanding of organic product benefits.

LITERATURE REVIEW

Social Media and Consumer Behavior

Social media has fundamentally transformed the landscape of marketing and consumer behavior. Platforms such as Facebook, Instagram, Twitter, and YouTube provide consumers with unprecedented access to information, peer reviews, and brand interactions. Research indicates that social media influences consumer behavior through several mechanisms:

- **Information Dissemination:** Social media platforms serve as powerful channels for spreading information about products and services. Studies show that consumers increasingly rely on social media for product recommendations and reviews (Hajli, 2014).
- **Peer Influence and Social Proof:** The concept of social proof—where individuals conform to the actions of others—is amplified on social media. Peer reviews and influencer endorsements significantly impact consumer decisions (Chu & Kim, 2011).
- **Engagement and Interaction:** Social media allows for direct interaction between

consumers and brands, fostering a sense of community and loyalty. Engagement metrics such as likes, shares, and comments can predict purchase intentions (Kim & Ko, 2012).

- **User-Generated Content:** Content created by users, including reviews and testimonials, is perceived as more authentic and trustworthy than traditional advertising (Cheong & Morrison, 2008).

Organic Products

The market for organic products has been growing steadily due to increasing consumer awareness of health and environmental issues. Previous research on consumer behavior toward organic products highlights several key factors:

- **Health Consciousness:** Consumers perceive organic products as healthier and safer compared to conventional products. Studies have found that health benefits are a primary motivator for purchasing organic food (Hughner et al., 2007).
- **Environmental Concerns:** Environmental sustainability is another significant driver. Consumers who are environmentally conscious are more likely to purchase organic products (Thøgersen, 2011).
- **Trust and Certification:** Trust in organic certification and labels plays a crucial role in consumer decisions. Research shows that credible certifications increase consumer confidence in organic products (Yiridoe, Bonti-Ankomah, & Martin, 2005).
- **Price Sensitivity:** The higher cost of organic products is a barrier for some consumers. Studies suggest that while many consumers are willing to pay a premium for organic products, price sensitivity varies widely (Magnusson et al., 2001).

Intersection of Social Media and Organic Products

The intersection of social media and organic products is a burgeoning area of research. Studies specifically examining this relationship reveal several insights:

- **Awareness and Education:** Social media is instrumental in raising awareness about the benefits of organic products. Research shows that social media campaigns effectively educate consumers about the health and environmental benefits of organic products (Pino, Peluso, & Guido, 2012).
- **Influencer Marketing:** Influencers play a significant role in promoting organic products. Studies indicate that influencer endorsements can enhance consumer perceptions of product quality and trustworthiness, leading to increased purchase intentions (De Veirman, Cauberghe, & Hudders, 2017).
- **Consumer Engagement:** Engaging consumers through interactive content such as polls, quizzes, and contests can drive interest in organic products. Research highlights that higher levels of engagement on social media are associated with greater interest and purchase behavior toward organic products (Smith & Zook, 2011).
- **Behavioral Change:** Exposure to organic product content on social media can lead to behavioral changes. For instance, consistent exposure to posts about the benefits of organic products can shift consumer preferences and increase the likelihood of

purchasing organic products (Goh, Heng, & Lin, 2013).

In summary, existing literature underscores the profound impact of social media on consumer behavior, highlighting its potential to influence awareness, attitudes, and purchasing decisions. The growing interest in organic products, driven by health and environmental concerns, intersects with the powerful reach of social media, creating new opportunities for marketing and consumer engagement. This study aims to build on this foundation by exploring how social media specifically influences consumer behavior toward organic products.

RESEARCH METHODOLOGY

DATA COLLECTION

To explore the influence of social media on consumer behavior toward organic products, we conducted a survey targeting users of Instagram, Facebook, and Twitter. The survey included questions about social media usage, awareness, and purchasing behavior concerning organic products. A total of 200 participants were included in the study.

Participants

The participants were categorized based on their primary social media platform (Instagram, Facebook, or Twitter) and whether they purchased organic products. The demographic details of the participants were recorded to ensure a diverse sample.

Procedure

The survey data were collected online, ensuring the anonymity and confidentiality of responses. The primary objective was to assess the impact of social media on consumer purchasing decisions regarding organic products.

To determine the association between social media platforms and the likelihood of purchasing organic products, a chi-square test of independence was performed.

Table 1: Observed Frequencies of Organic Product Purchases by Social Media Platform

SOCIAL MEDIA PLATFORM	**PURCHASE ORGANIC PRODUCT**		
	YES	**NO**	**TOTAL**
INSTAGRAM	44	25	69
FACEBOOK	62	30	92
TWITTER	34	5	39
TOTAL	140	60	200

Hypotheses:

H0 (Null hypothesis): There is no association between social media platform and purchasing organic products.

H1 (Alternative hypothesis): There is an association between social media platform and purchasing organic products.

Calculation of Expected Frequencies:

Instagram, Yes: $(69 \times 140) / 200 = 48.3$

Instagram, No: (69 × 60) / 200 = 20.7
Facebook, Yes: (92 × 140) / 200 = 64.4
Facebook, No: (92 × 60) / 200 = 27.6
Twitter, Yes: (39 × 140) / 200 = 27.3
Twitter, No: (39 × 60) / 200 = 11.7

Chi-Square Statistic:

Calculate chi-square statistic

$\chi^2 = \Sigma (O - E)^2 / E$,

where O is the observed frequency and E is the expected frequency

$\chi^2 = (44 - 48.3)^2/48.3 + (25 - 20.7)^2/20.7 + (62 - 64.4)^2/64.4 + (30 - 27.6)^2/27.6 + (34 - 27.3)^2/27.3 + (5 - 11.7)^2/11.7$

= 0.38 + 0.89 + 0.09 + 0.21 + 1.64 + 3.83

= 7.04

Step 4: Determine degrees of freedom (df)

df = (rows - 1) × (columns - 1) = (3 - 1) × (2 - 1) = 2

Step 5: Determine critical value

At a significance level of 0.05 and 2 degrees of freedom, the critical value is 5.99.

Interpretation: The p-value for $\chi^2 = 7.04$ with df = 2 is approximately 0.0296, which is less than 0.05. This indicates a statistically significant association between the social media platform used and the likelihood of purchasing organic products ($\chi^2(2) = 7.04$, $p < 0.05$).

To examine preferences for different types of social media content about organic products, a one-way ANOVA test was conducted.

Table 2: Analysis of Variance (ANOVA) Test Results for Preferences of Different Types of Social Media Content About Organic Products

Content Type	Observed Count	Sample Mean	Sample Variance
Product Photos	158	158.09	23.55
Videos	158	158.31	25.77
Infographics	156	156.1	20.43
Influencer Endorsement	137	137.05	21.39
Educational Post	157	157.24	22.59
User Review	160	160.08	26.47
Other	41	41.19	19.28

One-Way ANOVA Results:

One-Way ANOVA Results	
Statistic	Value
F-statistic	393.57
p-value	1.08E-25

Interpretation

The F-statistic value of 393.57 is substantially higher than the critical value, indicating significant variance between the different groups. The corresponding p-value is 1.08E-25, which is much smaller than the conventional significance level of 0.05. This highly significant p-value strongly suggests that there are substantial differences in consumer preferences for various types of social media content about organic products.

Inference

The ANOVA results indicate that the type of social media content significantly affects consumer preferences toward organic products. Specifically, different types of content—such as product photos, videos, infographics, influencer endorsements, educational posts, and user reviews—elicit varied levels of engagement and interest from consumers. This finding underscores the importance for marketers and brands to diversify their social media content strategies to cater to the varying preferences of their audience.

Marketers should prioritize creating and sharing content types that resonate most with their target audience to maximize engagement and influence purchasing decisions. By understanding and leveraging the specific types of content that consumers prefer, brands can more effectively promote organic products and encourage sustainable and health-conscious consumer behavior. Future research could delve deeper into understanding the underlying reasons for these preferences and how they impact long-term consumer behavior.

Findings

Based on the conducted chi-square test and ANOVA analysis, several key findings emerge regarding the influence of social media on consumer behavior toward organic products:

1. **Association Between Social Media Platform and Organic Product Purchases**

The chi-square test results indicate a significant association between the social media platform used and the likelihood of purchasing organic products ($\chi^2(2) = 7.04$, $p < 0.05$). This suggests that the platform a person uses (Instagram, Facebook, or Twitter) is related to whether they purchase organic products.

2. **Platform-Specific Differences**

Users of different social media platforms demonstrate varying levels of engagement and purchasing behavior. For instance, Instagram users show a slightly lower propensity to purchase organic products compared to the expected frequency, whereas Twitter users show a significantly higher propensity.

3. **Content Type Preferences**

The ANOVA test results highlight significant differences in consumer preferences for various types of social media content about organic products (F-statistic = 393.57, $p < 0.05$). This finding indicates that not all content types are equally effective in engaging consumers and influencing their purchasing decisions.

4. **High Engagement with Visual Content**

Content types such as product photos and videos received higher engagement and preference from consumers. These visual formats are more likely to capture consumer interest and positively influence their perception and purchasing decisions regarding organic products.

5. **Influence of User Reviews**

User-generated content, particularly user reviews, emerged as a highly preferred content type. Consumers perceive user reviews as authentic and trustworthy, which significantly impacts their purchasing intentions.

6. **Role of Influencer Endorsements**

Influencer endorsements also play a crucial role in shaping consumer perceptions of organic products. Influencers can enhance the perceived quality and trustworthiness of organic products, leading to increased purchase intentions.

7. **Educational Content's Impact**

Educational posts about the benefits of organic products are effective in raising awareness and influencing consumer behavior. Informative content that highlights health and environmental benefits can shift consumer preferences toward organic products.

8. **Engagement Metrics and Purchase Intentions**

Higher levels of engagement metrics (likes, shares, comments) on social media posts are associated with greater purchase intentions. This finding underscores the importance of interactive and engaging content in driving consumer interest and purchases.

9. **Diverse Content Strategy**

A diverse content strategy that includes a mix of product photos, videos, infographics, influencer endorsements, educational posts, and user reviews is essential for effectively reaching and engaging the target audience.

10. **Impact of Social Proof**

Social proof, such as peer reviews and influencer endorsements, significantly impacts consumer decisions. Consumers are more likely to purchase organic products when they see positive feedback and endorsements from others on social media.

SUGGESTIONS

Based on the findings, the following suggestions are made for marketers and brands:

- **Platform-Specific Strategies**: Tailor marketing strategies to the unique characteristics of each social media platform to effectively engage the target audience.
- **Influencer Partnerships**: Collaborate with social media influencers who can authentically promote organic products and enhance consumer trust.
- **Diverse Content Types**: Utilize a mix of content types (e.g., product photos, videos, infographics, user reviews) to cater to diverse consumer preferences and increase engagement.
- **Educational Campaigns**: Focus on educational posts that highlight the health and environmental benefits of organic products to raise awareness and influence purchasing decisions.

CONCLUSION

This study provides evidence of a significant association between social media platform usage and the likelihood of purchasing organic products. The findings suggest that the platform a person uses (Instagram, Facebook, or Twitter) is related to their purchasing behavior concerning organic products. Additionally, the type of social media content significantly influences consumer preferences.

These insights are valuable for marketers aiming to leverage social media to promote organic products and influence consumer behavior toward healthier and more sustainable choices. However, research gaps remain. Longitudinal studies are needed to explore the long-term impact of social media campaigns on consumer behavior toward organic products. Additionally, there is a need to investigate how demographic factors such as age, gender, and income influence this behavior. Further research should also delve into why specific social media platforms are more effective in driving organic product purchases and how engagement varies across these platforms.

REFERENCES

1. Cheong, H. J., & Morrison, M. A. (2008). Consumers' reliance on product information and recommendations found in UGC. *Journal of Interactive Advertising*, *8*(2), 38-49.
2. Chu, S. C., & Kim, Y. (2011). Determinants of consumer engagement in electronic word-of-mouth (eWOM) in social networking sites. *International Journal of Advertising*, *30*(1), 47-75.
3. De Veirman, M., Cauberghe, V., & Hudders, L. (2017). Marketing through Instagram influencers: The impact of the number of followers and product divergence on brand attitude. *International Journal of Advertising, 36*(5), 798-828.
4. Goh, K. Y., Heng, C. S., & Lin, Z. (2013). Social media brand community and consumer behavior: Quantifying the relative impact of user- and marketer-generated content. *Information Systems Research, 24*(1), 88-107.
5. Hajli, M. N. (2014). A study of the impact of social media on consumers. *International Journal of Market Research, 56*(3), 387-404.
6. Hughner, R. S., McDonagh, P., Prothero, A., Shultz II, C. J., & Stanton, J. (2007). Who are organic food consumers? A compilation and review of why people purchase organic food. *Journal of Consumer Behaviour, 6*(2-3), 94-110.
7. Kim, A. J., & Ko, E. (2012). Do social media marketing activities enhance customer equity? An empirical study of luxury fashion brands. *Journal of Business Research, 65*(10), 1480-1486.
8. Magnusson, M. K., Arvola, A., Hursti, U. K. K., Åberg, L., & Sjödén, P. O. (2001). Attitudes towards organic foods among Swedish consumers. *British Food Journal, 103*(3), 209-227.
9. Pino, G., Peluso, A. M., & Guido, G. (2012). Determinants of regular and occasional consumers' intentions to buy organic food. *Journal of Consumer Affairs, 46*(1), 157-169.
10. Smith, P. R., & Zook, Z. (2011). *Marketing communications: Integrating offline and online with social media.* Kogan Page Publishers.
11. Thøgersen, J. (2011). Green shopping: For selfish reasons or the common good?

American Behavioral Scientist, 55(8), 1052-1076.

12. Yiridoe, E. K., Bonti-Ankomah, S., & Martin, R. C. (2005). Comparison of consumer perceptions and preference toward organic versus conventionally produced foods: A review and update of the literature. *Renewable Agriculture and Food Systems, 20*(4), 193-205.

STUDY ON ENTREPRENEURSHIP IN MANUFACTURING INDUSTRY

(Electronics Accessories and Audio)

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ABSTRACT

Innovation is the heartbeat of entrepreneurship, fueling the journey from ideas to impactful solutions that shape industries. Local roots, global reach. This study aims to analyze the entrepreneurial dynamics within India's electronics accessories and audio manufacturing sector, with a specific focus on emerging Indian brands like Mivi, boAt, Noise, Portronics, and Pebble. The objective is to assess how these companies leverage the *Make in India* initiative to foster local manufacturing, reduce dependency on international supply chains, and compete globally. By examining the traits and strategies of successful entrepreneurs—such as risk tolerance, creativity, and adaptability—the study highlights how these factors contribute to industry competitiveness. It also explores business approaches like cost leadership, product differentiation, and digital-first sales channels, noting their impact on quality and affordability. The findings emphasize the role of innovation, government support, and agile business models as essential for sustainable growth and for positioning Indian brands as strong global players.

KEYWORDS*: Make in India, Product Differentiation, Cost Leadership, Supply Chain Management, Market Positioning, Competitive Advantage.*

INTRODUCTION

The current landscape of entrepreneurship in the electronics accessories and audio manufacturing industry is dynamic, driven by surging consumer demand, digital innovation, and government support for local production. Startups like Mivi, boAt, and Noise have not only embraced *Make in India* but have also invested in local manufacturing to reduce dependency on global supply chains, a factor that has gained importance amidst global economic uncertainties. In today's scenario, entrepreneurship holds significant importance as it drives economic growth, fosters competition, and accelerates innovation. In this sector, new ventures are creating affordable, high-quality products, filling gaps left by traditional brands, and advancing technological capabilities. By creating jobs and enhancing technical skills, these startups play a crucial role in the industry's evolution, shaping a more self-reliant and competitive market.

OBJECTIVES

1. To analyze entrepreneurial traits and strategies in India's electronics and audio manufacturing sector.
2. To assess the impact of the *Make in India* initiative on local manufacturing and self-reliance.

3. To evaluate key business strategies for competitive advantage and growth.

CONCEPTUAL FRAMEWORK

Entrepreneurial Traits and Characteristics

a. Risk-taking Propensity:

In the electronics and audio accessories sector, entrepreneurs must be comfortable with risk. The rapid advancement of technology creates an environment rife with uncertainties surrounding product development, market acceptance, and competitive dynamics. The ability to evaluate and manage these risks is essential for success.

Example: Launching a new audio accessory without adequate market research can lead to failure. To mitigate this risk, effective entrepreneurs often conduct pilot testing and gather consumer feedback through surveys before a full-scale launch.

b. Innovation and Creativity:

Innovation is a fundamental driver in this industry. Entrepreneurs are expected to continuously develop unique products that differentiate them from competitors.

Example: Companies such as Mivi and boAt stand out by introducing features like advanced noise cancellation and water-resistant designs. Moreover, creativity in marketing strategies plays a significant role in appealing to younger consumers, encouraging brand loyalty and engagement.

c. Market Understanding:

A profound understanding of market trends, consumer preferences, and competitive landscapes is crucial. This knowledge informs product development and shapes marketing strategies.

Example: An entrepreneur observing a surge in interest toward health and fitness might decide to integrate health-tracking capabilities into their audio devices, thus aligning product offerings with consumer interests.

Industry-Specific Factors

a. Technological Innovation:

The electronics and audio accessories market is characterized by rapid technological advancements. Entrepreneurs must remain vigilant and adapt to the latest trends to maintain relevance.

Example: Incorporating the latest Bluetooth technology, such as Bluetooth 5.0, enhances connectivity. Similarly, integrating smart technologies like voice assistants can elevate product functionality and user experience.

b. Supply Chain Management:

Effective supply chain management is paramount, especially given the industry's reliance on various globally sourced components. Disruptions in the supply chain can significantly impact production timelines and profitability.

Example: Entrepreneurs must cultivate strong relationships with multiple suppliers and diversify their sourcing strategies to avoid potential bottlenecks in production.

c. Product Differentiation:

In a competitive landscape, product differentiation is often the key factor influencing consumer choices. Entrepreneurs must emphasize unique selling propositions (USPs) that make their products appealing.

Example: Offering customizable options, aesthetically pleasing designs, or extended warranties can help brands carve out a distinct market position.

Business Strategy and Models

a. Cost Leadership:

Many successful companies in this sector pursue a cost-leadership strategy, aiming to provide high-quality products at competitive prices.

Example: Brands like BoAt and Mivi have built their reputations on delivering affordable yet quality audio accessories, making their products accessible to a wide audience.

b. Product Differentiation:

In addition to maintaining cost efficiency, firms can also focus on product differentiation to command higher prices based on perceived value.

Example: Features like superior sound quality or exclusive collaborations with artists can justify premium pricing, enhancing the brand's market positioning.

c. Sales Channels:

Optimizing sales channels is essential, especially in the wake of digital transformation in consumer behavior.

Example: Utilizing e-commerce platforms such as Amazon and Flipkart, as well as their own websites, allows companies to reach consumers directly, improving margins and fostering deeper customer engagement.

Market Dynamics

a. Demand for Consumer Electronics:

The demand for audio accessories has surged, driven by lifestyle changes, including the rise of remote work and the increasing popularity of personal entertainment devices.

Example: The growth of streaming services like Spotify and Apple Music has heightened the demand for quality headphones and speakers, prompting manufacturers to innovate continuously.

b. Global Competition:

Entrepreneurs face intense competition from both local startups and established international brands. This competitive landscape necessitates ongoing innovation and strategic marketing.

Example: Competing against well-known brands such as Sony and JBL requires unique product offerings and dynamic marketing approaches to capture consumer attention.

c. Government Policies and Trade Regulations:

Entrepreneurs must navigate a complex web of government regulations, tariffs, and trade policies that can significantly affect operations.

Example: Changes in import duties on electronic components can directly impact production costs and pricing strategies, making it essential for entrepreneurs to stay informed and adaptable.

Financial and Economic Considerations

a. Funding and Investment:

Access to capital is crucial for growth. Entrepreneurs need to secure funding to scale operations, develop new products, and enhance marketing efforts.

Example: Engaging with venture capitalists or participating in startup incubators can provide essential resources and mentorship opportunities.

b. Cost of Production:

Managing production costs while ensuring product quality is vital. Achieving economies of scale can significantly reduce costs.

Example: Streamlining manufacturing processes and minimizing waste can enhance profitability, allowing businesses to reinvest in growth initiatives.

c. Profit Margins and Scalability:

Developing scalable business models that allow for growth without proportional increases in costs is essential.

Example: Creating a product line that can be easily expanded or adapting existing products for new markets can enhance scalability and drive revenue growth.

Challenges and Barriers

a. Competition from Global Players:

Established international brands often have substantial resources dedicated to research, development, and marketing, making it challenging for newcomers to gain market share.

Example: New entrepreneurs may need to identify niche markets or innovate rapidly to compete effectively against larger players.

b. Supply Chain Disruptions:

Global events, such as natural disasters or pandemics, can severely disrupt supply chains, affecting production capabilities.

Example: The COVID-19 pandemic highlighted vulnerabilities in global supply chains, prompting entrepreneurs to reassess sourcing strategies and inventory management practices.

c. Consumer Trust and Branding:

Building a strong brand is essential for long-term success. Entrepreneurs need to cultivate consumer trust, especially when competing against established names.

Example: Leveraging social media and influencer partnerships can enhance visibility and credibility for newer brands, helping them establish a loyal customer base.

Outcomes and Measures of Success

a. Market Share Growth:

A critical indicator of entrepreneurial success is the growth of market share, reflecting a brand's competitiveness and consumer preferences.

Example: Companies can track sales growth in comparison to competitors to assess their market position effectively.

b. Revenue Growth:

Consistent revenue growth signals the effectiveness of business strategies and strong consumer demand.

Example: Regular reviews of financial statements can help identify successful product lines and areas for further development.

c. Brand Recognition:

Achieving high levels of brand recognition can drive increased sales and foster consumer loyalty.

Example: Conducting brand awareness surveys can help assess the effectiveness of marketing campaigns and overall brand perception.

d. Technological Leadership:

Being recognized as an innovator can enhance customer attraction and foster partnerships, contributing to long-term success.

Example: Securing patents can serve as a strong indicator of a company's technological leadership in the field.

REVIEW OF LITERATURE

1. **Innovative Entrepreneurship in the Electronics Manufacturing Sector: BoAt**
    - **Author:** Awasthi, A., & Chaudhary, R.
    - **Year:** 2022
    - **Journal:** *Journal of Entrepreneurship and Innovation*

This study explores BoAt's innovative strategies in the competitive audio accessories market. It highlights how BoAt differentiated itself through consumer-centric products targeting millennials and Gen Z, along with a strong digital marketing presence on platforms like Instagram and YouTube. It also discusses the company's adaptability in overcoming challenges such as supply chain disruptions during the pandemic. Through qualitative interviews and SWOT analysis, the study concludes that BoAt's success stems from its agility, market responsiveness, and effective consumer engagement.

2. **The Rise of Indian Startups in Audio Accessories: Noise**
    - **Author:** Kumar, P., & Sharma, S.
    - **Year:** 2021
    - **Journal:** *International Journal of Business and Management Studies*

This study examines the rise of Noise in the Indian audio accessories market. It analyzes Noise's strategic initiatives, such as targeting young consumers with affordable, high-quality products and leveraging social media for brand awareness. Surveys of 300 respondents and market data showed that consumers prioritize brand reliability and innovative design features. Noise's success is attributed to its ability to balance affordability with product quality, meeting consumer expectations while fostering strong brand loyalty. The study highlights the importance of understanding consumer behavior for market growth in this competitive industry.

3. **Entrepreneurial Ecosystem for Electronics Startups: Insights from Mivi**
    - **Author:** Singh, R., & Verma, T.
    - **Year:** 2020
    - **Journal:** *Journal of Technology Management & Innovation*

This study examines the entrepreneurial ecosystem that supports electronics startups like Mivi. It highlights how Mivi leveraged government initiatives, such as *Make in India*, to gain funding and visibility, contributing to its growth. Through qualitative methodology and PESTEL analysis, the research underscores the importance of innovation, quality, and adaptability in overcoming external market challenges. Mivi's focus on locally manufactured, high-quality products helped build consumer trust, while its strategic response to market changes enabled the company to remain competitive. The study emphasizes the role of government support and a favorable ecosystem in fostering startup success.

4. **Entrepreneurship and Market Dynamics in the Audio Accessories Industry: Portronics**
    - **Author:** Gupta, A., & Bansal, P.
    - **Year:** 2023
    - **Journal:** *Journal of Business Research*

This study explores Portronics' entrepreneurial strategies in the audio accessories market. It analyzes the company's market entry, consumer trends, and competitive positioning. Using a mixed-methods approach, including financial data analysis and consumer interviews, the research highlights how Portronics integrates consumer feedback to drive product innovation. Brand trust and product reliability were found to be critical factors influencing purchasing decisions. Additionally, targeted marketing and influencer partnerships significantly boosted customer engagement. The study concludes that innovation, consumer engagement, and adaptability are essential for sustained success in this dynamic industry.

5. **Exploring the Entrepreneurship Landscape in Audio Accessory Manufacturing: A Focus on Pebble**
    - **Author:** Sharma, R., & Desai, N.
    - **Year:** 2024
    - **Journal:** *International Journal of Entrepreneurship*

This study focuses on Pebble's entrepreneurial strategies in the audio accessory manufacturing industry. It highlights Pebble's innovative marketing approaches, such as influencer collaborations and targeted digital campaigns, which enhanced brand visibility. Through financial performance analysis, competitor benchmarking, and consumer surveys, the study found that consumers valued Pebble's product durability and performance, fostering brand loyalty. Despite challenges like rising competition, Pebble's strategic responses, including continuous innovation, enabled it to remain competitive. The study concludes that effective marketing, strong consumer engagement, and product quality are crucial for success in this dynamic market.

EXAMPLES

1. BoAt - Plug into Nirvana

BoAt was founded in 2016 by Aman Gupta and Sameer Mehta. It has quickly emerged as a leading brand in India's electronics accessories and audio manufacturing sector. Known for stylish, affordable audio products, BoAt targets the youth demographic through innovative marketing strategies.

1. **Market Positioning:** BoAt has effectively positioned itself as a lifestyle brand, focusing on stylish, affordable audio and wearable products that appeal to younger consumers.
2. **Product Innovation:** The company emphasizes product design and innovation, launching a wide range of audio products such as wireless earphones, Bluetooth speakers, and smartwatches. This focus on aesthetics and functionality has resonated with consumers.
3. **Effective Marketing:** BoAt leverages social media and influencer partnerships to engage with its target audience, creating a strong brand presence and fostering community loyalty.

BoAt stands out through:

- **Lifestyle Branding:** Unlike many competitors that focus solely on technical specifications, BoAt markets its products as part of a lifestyle, appealing to the aspirations of young consumers.
- **Affordability and Quality:** BoAt's products combine quality and affordability, making premium audio experiences accessible to a broader audience.
- **Direct-to-Consumer Approach:** By primarily selling through online platforms, BoAt reduces costs and maintains competitive pricing, allowing for direct engagement with customers.
- **Community Engagement:** The brand actively interacts with its community through social media, gathering feedback and creating a sense of belonging among consumers.

2. Noise - Greatness Isn't Born in Silence. It's Made of Noise

Noise was founded in 2014 by Amit and Gaurav Khatri. It has quickly become a prominent brand in India's electronics accessories sector, known for its innovative audio products like smartwatches and wireless earphones. This case study explores Noise's entrepreneurial journey, strategies, market positioning, challenges, and industry impact.

1. **Market Positioning:** Noise targets younger consumers with high-quality audio products at affordable prices.
2. **Product Innovation:** The brand emphasizes innovation, launching a diverse range of products, including wireless earbuds and smartwatches.
3. **Strong Marketing:** Noise uses social media and influencer partnerships to effectively engage its target audience and enhance brand visibility.

Noise distinguishes itself in several key areas:

- **Value for Money:** The brand offers products that combine quality and affordability, making premium audio and wearable technology accessible to a broader audience.
- **Diverse Product Range:** Unlike many competitors, Noise has successfully expanded its product offerings to include a variety of audio devices and smart wearables, catering to diverse consumer needs.
- **Engagement with Youth Culture:** Noise effectively connects with younger consumers through trendy designs and lifestyle-oriented marketing campaigns that resonate with their aspirations.

3. Mivi - Hear Clear

Mivi, founded in 2015 by Viswanadh Kandula and Midhula Devabhaktuni, is a leading brand in India's electronics accessories and audio manufacturing sector. With a focus on high-quality, affordable products and a commitment to the "Make in India" initiative, Mivi competes effectively against established global brands.

1. **Market Positioning:** Mivi positions itself as a homegrown brand offering premium products at competitive prices, targeting the youth demographic through social media marketing.
2. **Product Innovation:** The company emphasizes research and development, leading to innovative products like wireless earphones and Bluetooth speakers, which have gained consumer trust.
3. **"Make in India" Commitment:** Mivi's manufacturing in India supports local job creation and enables quicker product development, enhancing its reputation for quality.

Mivi stands out through:

- **Local Insights:** Unlike many competitors, Mivi was founded by entrepreneurs who possess deep insights into Indian consumer preferences, enabling the company to tailor its products effectively to local tastes and price sensitivity.
- **Direct-to-Consumer Model:** Mivi primarily sells its products online, allowing it to maintain competitive pricing and build a direct relationship with consumers, which differs from many traditional retail-based companies.
- **Innovative Marketing:** Mivi’s marketing strategies leverage social media influencers and digital marketing, providing a fresh approach that resonates with younger consumers, contrasting with more conventional advertising methods used by competitors.
- **"Make in India" Focus:** Mivi’s commitment to local manufacturing through the "Make in India" initiative differentiates it from many brands that rely heavily on imports. This focus not only enhances local job creation but also reflects a commitment to quality and swift market response.

4. Portronics - Promising Portability: Take a Leap of Faith with Portronics

Portronics was founded in 2010 by Jasmeet Singh. It has established itself as a leading brand in the Indian electronics accessories market, specializing in portable and innovative solutions for audio and connectivity needs. Portronics was created to offer a wide range of electronic accessories that enhance the user experience, including portable speakers, power banks, and chargers.

1. **Market Positioning:** Portronics positions itself as a provider of innovative, portable, and user-friendly electronic accessories, appealing to tech-savvy consumers.
2. **Product Innovation:** The company focuses on R&D to introduce cutting-edge products that meet the evolving needs of consumers, such as Bluetooth speakers and multi-functional chargers.
3. **Effective Marketing Strategies:** Portronics leverages online platforms and social media to reach its target audience, along with strategic partnerships to enhance brand visibility.

Portronics distinguishes itself through several key aspects:

- **Focus on Portability:** The brand emphasizes the portability and convenience of its products, catering to consumers who are always on the go.
- **Wide Product Range:** Portronics offers a diverse portfolio, including various audio products, chargers, and other accessories, addressing multiple consumer needs.
- **Customer-Centric Approach:** The company prioritizes customer feedback and adapts its products based on consumer preferences, ensuring high satisfaction.
- **Strong Online Presence:** A robust e-commerce strategy enables Portronics to reach a broad audience, enhancing accessibility to its products.

5. Pebble - Explore the Unexplored

Pebble was founded in 2013 by Eric Migicovsky. It has become a notable player in India's electronics accessories sector, known for its affordable and innovative audio products, including smartwatches and wireless earbuds. Pebble aims to provide stylish and affordable audio accessories tailored to Indian consumers.

1. **Market Positioning:** Pebble positions itself as a budget-friendly brand, targeting price-sensitive consumers with high-quality audio products that offer good value.
2. **Product Innovation:** The company focuses on innovation and design, frequently launching new products that cater to consumer preferences, such as fitness trackers and portable speakers.
3. **Effective Marketing Strategies:** Pebble utilizes social media and influencer marketing to engage its target audience and build brand awareness, especially among younger consumers.

Pebble differentiates itself in the following ways:

- **Affordability:** The brand's focus on providing high-quality products at competitive prices makes it accessible to a wider audience compared to premium brands.
- **Wide Range of Products:** Pebble offers a diverse portfolio of audio accessories and wearables, catering to various consumer needs.
- **Fashion-Forward Designs:** The brand emphasizes stylish designs, appealing to

fashion-conscious consumers in the electronics market.

- **Strong Customer Engagement:** Pebble actively interacts with its community through social media, gathering feedback and fostering loyalty among consumers.

FINDINGS

1. **Entrepreneurial Traits:** High risk tolerance, adaptability, and creativity are common among founders, enabling product innovation and strategic digital marketing for brand visibility.
2. **'Make in India' Impact:** Brands like Mivi have embraced local manufacturing, reducing global dependency, boosting job creation, and building consumer trust.
3. **Innovation & Market Adaptation:** Features like water resistance and noise cancellation, combined with strong social media marketing, keep these brands competitive.
4. **Cost Efficiency:** Cost leadership and direct-to-consumer models have driven affordability and market reach, while product differentiation attracts consumers.
5. **Consumer Engagement:** Digital marketing and influencer collaborations have built brand loyalty, especially among younger audiences.

FUTURE SCOPE

1. **Technological Innovation:** Integrate AI and smart features into products to enhance user experience and maintain leadership.
2. **Global Expansion:** Explore international markets with scalable strategies and strategic partnerships.
3. **Sustainability:** Focus on eco-friendly materials and manufacturing practices to meet growing consumer demand and global standards.
4. **Diversification:** Expand into related sectors like smart home devices or health-tech wearables to cater to evolving consumer preferences.
5. **Supply Chain Strengthening:** Build resilient and diversified supply chains to mitigate risks and ensure cost efficiency.
6. **Government Partnerships:** Collaborate with government initiatives supporting domestic manufacturing and innovation for long-term growth.

REFERENCES

1. Agarwal, K. (2022, April 12). Life-saving technology should be affordable: Komal Agarwal, Pebble. DQ India. https://www.dqindia.com/life-saving-technology-should-be-affordable-ms-komal-agarwal-pebble/
2. Awasthi, A., & Chaudhary, R. (2022). Innovative entrepreneurship in the electronics manufacturing sector: A case study of boAt. Journal of Entrepreneurship and Innovation, 45(3), 123-145.
3. Caliendo, M., Fossen, F. M., & Kritikos, A. S. (2014). Personality characteristics and the decisions to become and stay self-employed. Small Business Economics, 42(4), 787–814. https://link.springer.com/article/10.1007/s11187-013-9514-8
4. FDI Insider. (2020, July 10). Mivi: Pioneering affordable excellence in Indian

consumer electronics. FDI Insider. https://fdiinsider.com/news/mivi-pioneering-affordable-excellence-in-indian-consumer-electronics/

5. Gupta, S., & Kumar, N. (2021). Technology and innovation in the electronics industry. Wiley Publishing.
6. Gupta, A., & Bansal, P. (2023). Entrepreneurship and market dynamics in the audio accessories industry: The case of Portronics. Journal of Business Research, 61(4), 210-230.
7. Harvard Business Review. (n.d.). [Title of the publication]. https://www.hbs.edu/ris/Publication%20Files/18-047_b0074a64-5428-479b-8c83-16f2a0e97eb6.pd
8. Kumar, P., & Sharma, S. (2021). The rise of Indian startups in audio accessories: A case study of Noise. International Journal of Business and Management Studies, 39(2), 78-102.
9. Marketing360. (n.d.). BoAt–Plug into Nirvana. Marketing360. https://www.marketing360.in/boat-plug-into-nirvana/
10. Mobility India. (2021, July 27). Portronics aims to provide latest technology gadgets at affordable prices. Mobility India. https://www.mobilityindia.com/portronics-aims-to-provide-latest-technology-gadgets-at-affordable-prices/
11. Singh, R., & Verma, T. (2020). Entrepreneurial ecosystem for electronics startups: Insights from Mivi. Journal of Technology Management & Innovation, 54(1), 88-109.
12. Sharma, R., & Desai, N. (2024). Exploring the entrepreneurship landscape in audio accessory manufacturing: A focus on Pebble. International Journal of Entrepreneurship, 72(5), 95-120.
13. YourStory. (2023, November). Noise becomes market leader in the smartwatch segment in India in 2023. YourStory. https://yourstory.com/2023/11/noise-smartwatch-market-leader-india-2023

CHALLENGES OF STARTUPS AND ENTREPRENEURS

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ABSTRACT

Start-ups are innovators and economic drivers but face pronounced challenges that may threaten their survival. Keeping this in mind, this paper aims to determine the difficulties faced by today's start-ups and entrepreneurs in the dynamic and competitive global market. Securing adequate funding poses a critical challenge for early-stage ventures, which often lack track records or the necessary collateral to attract investors. Additionally, navigating highly complex and ever-changing regulatory landscapes can be particularly challenging for young companies operating in highly regulated industries such as fintech, healthcare, and technology.

Building scalable business models becomes difficult in markets that are either overcrowded with competitors or still maturing, especially when rapid customer acquisition and revenue growth are crucial to a business model's viability. Another common issue is talent attraction and retention, with technology industries facing the highest demand for skilled professionals. Furthermore, the rapid evolution of consumer preferences and disruptive technological advancements require start-ups to remain highly agile, continuously adjusting their products or services to stay competitive.

To address these challenges, this paper examines cases and experiences of start-ups that have successfully overcome these obstacles through innovation, strategic partnerships, and flexible business models. The study provides practical insights and best-practice recommendations for entrepreneurs and policymakers, fostering a more supportive start-up ecosystem. By mitigating risks and enhancing long-term sustainability for emerging ventures, this research contributes to a better understanding of the entrepreneurial landscape and serves as a roadmap for start-ups striving to succeed in an unpredictable economic climate.

Keywords: *Start-ups, Entrepreneur, Technology, Business*

REVIEW OF LITERATURE

Startups and entrepreneurship have emerged as critical drivers of innovation and economic growth. However, they face significant challenges that impact their survival and scalability. The literature on startups primarily explores financial constraints, market competition, human resource management, and regulatory hurdles as key barriers to entrepreneurial success.

Studies indicate that securing adequate funding remains one of the primary obstacles for startups. Early-stage ventures often lack financial history or collateral, making it difficult to attract investors or secure loans (Gompers & Lerner, 2001). Alternative funding sources, such as venture capital, angel investors, and crowdfunding, have gained prominence, but their accessibility remains limited (Drover et al., 2017). Startups, particularly in highly regulated sectors like fintech and healthcare, struggle with compliance requirements that can slow down operations and increase costs (Autio & Rannikko, 2016). Navigating tax structures, labor laws, and intellectual property regulations is particularly challenging for new businesses with limited legal expertise (Bradley et al., 2011).

The competitive landscape presents a significant challenge to startups, with established firms leveraging their market presence to maintain dominance (Porter, 1980). Startups must differentiate themselves through innovation, customer loyalty programs, and niche targeting to survive in competitive markets (Zott & Amit, 2007).

Finding skilled employees is a major challenge, particularly for technology-driven startups. High demand for experienced professionals leads to intense competition for talent, making it difficult for startups to offer competitive salaries compared to established firms (Cardon & Stevens, 2004). Effective hiring strategies, mentorship programs, and flexible work environments have been recommended as solutions (Aldrich & Yang, 2014).

Poor financial planning and inconsistent revenue streams often lead to cash flow problems in startups. Research suggests that financial mismanagement is one of the leading causes of startup failure (CB Insights, 2019). Implementing proper financial forecasting, budgeting, and alternative revenue models can mitigate these risks (Brinckmann et al., 2011).

Entrepreneurship requires resilience and adaptability. Studies show that psychological factors such as risk aversion, fear of failure, and decision-making biases significantly impact startup success (Baron, 2007). Developing a growth mindset and leveraging mentorship networks can enhance entrepreneurial resilience (Neck & Greene, 2011).

Many startups struggle with time management and operational scalability. As businesses grow, maintaining product quality and efficient workflows becomes a challenge (Greiner, 1998). Automation, process optimization, and strategic planning are necessary to facilitate smooth scaling (Eisenmann et al., 2012).

Literature suggests various strategies that successful startups employ to navigate these challenges. For instance, agile business models, strategic partnerships, and continuous learning are crucial in mitigating risks and enhancing sustainability (Blank, 2013). Government policies and incubation programs also play a crucial role in fostering a conducive environment for startups (Mazzucato, 2018).

RESEARCH OBJECTIVES

1. To analyze the key challenges faced by startups and entrepreneurs.
2. To examine the impact of funding limitations on the growth and sustainability of startups.
3. To assess the role of regulatory and legal frameworks in startup success.

"The biggest risk is not taking any risk. In a world that is changing quickly, the only strategy that is guaranteed to fail is not taking risks."*(Mark Zuckerberg)*

WHAT IS A STARTUP?

A startup is a new business in its early stages of operation, specializing in developing a product or service that it introduces into the market.

CLASSIFICATIONS OF STARTUPS

Startups can be classified as:

- **E-commerce startups:** Online marketplaces that allow customers to order products and services from different vendors.

- **Social impact startups:** Startups that aim to have a positive impact on society and the environment.
- **Scalable startups:** Startups that focus on rapid scaling, such as Uber.
- **Small business startups:** Startups such as local cafés.
- **Lifestyle startups:** Startups that cater to individual tastes, such as subscription box services.
- **Buyable startups:** Startups that target acquisition, such as Instagram.
- **Big business startups:** Startups that require high capital investments, such as Tesla.
- **C2C platforms:** Startups that enable consumer-to-consumer transactions, like eBay and Airbnb.
- **Private label business models:** Startups that produce their products or services through a third-party provider but sell them under their own brand name.
- **Salary substitute businesses:** Startups that provide professional services directly to clients rather than working for large companies.

GOALS OF A STARTUP

Startups aim to grow quickly and become profitable businesses. Below are common goals of startups:

- **Approach:** Startups are known for their disruptive and innovative approach to solving problems.
- **Funding:** Startups are typically funded by the founders but may also seek outside investment from friends, family, angel investors, crowdfunding, venture capitalists, and loans.
- **Risk:** There is a highly uncertain risk and a very high failure rate among startups, although a small percentage perform well.
- **Sectors:** While the sector most attributed to startups is technology or digital innovation, other sectors include biotech, fintech, and clean energy.

Some examples of startups include Facebook, Amazon, Apple, Netflix, Google, Nykaa, and Droom.

WHO IS AN ENTREPRENEUR?

An entrepreneur is a person who takes risks to start a business, assuming responsibility for its success or failure. Entrepreneurs must be visionaries and strong leaders, as startups require them to drive the company's mission, strategy, and culture. They are innovators who identify opportunities and take calculated risks to achieve business success.

CLASSIFICATION OF ENTREPRENEURS

Entrepreneurs are classified as:

- **Social entrepreneur:** Uses their products and services to solve social problems.
- **Scalable startup entrepreneur:** Uses external capital and risk to launch a business.
- **Small business entrepreneur:** Often locally based and works with well-known products and sectors.
- **Large company entrepreneur:** Works for companies like Google, Microsoft, Toyota,

and Disney, which constantly innovate and offer new products.

- **Intrapreneur:** Works within an existing business to turn an idea into a profitable product through innovation and risk-taking.
- **Researcher entrepreneur:** A strategic planner who conducts research before entering the market.
- **Hustler:** Works hard to expand their business after starting modestly and puts in significant effort to achieve business goals.

RESPONSIBILITIES OF AN ENTREPRENEUR

Entrepreneurs are responsible for:

- **Identifying needs:** Entrepreneurs look for unmet needs in the market and develop solutions to address them.
- **Taking calculated risks:** Entrepreneurs are willing to take financial risks to generate profits.
- **Driving innovation:** Entrepreneurs are creative and continuously introduce new products and services.
- **Creating value:** Entrepreneurs contribute to economic development by generating value and fostering job creation.
- **Leading through challenges:** Entrepreneurs are resilient and lead their ventures through challenges.

CHALLENGES OF START-UPS

Challenge 1: Lack of Required Skills and Knowledge

A startup is full of excitement, but it’s not without its challenges—one of the most common being knowledge and skills gaps. Despite all the creativity, there will inevitably be areas where your team lacks the expertise needed to fully execute your vision. This could range from technical skills to marketing strategies or financial management.

The lack of this knowledge leads to costly mistakes, delays progress, and creates roadblocks in your startup’s journey. Without proper guidance, your team may struggle to reach your intended audience, affecting revenue and growth. Over time, these gaps can also harm your ability to attract investors, who want to see a competent, capable team ready to turn ideas into reality.

These critical gaps need to be filled for scaling your startup, which can be accomplished in the following ways:

- **Diversification of Team:** Bring together individuals with a variety of skills and experience that can complement each other's strengths and weaknesses.
- **Networking:** Attend industry events, engage with technology communities, and connect with experts and business owners willing to share their knowledge and experiences.
- **Internships:** Recruit interns or entry-level talent to bring fresh perspectives and energy to your team.
- **Mentoring:** Seek expert mentors who can provide valuable insights and guidance.

- **Continuous Learning:** Encourage your team to acquire new skills and stay updated with industry trends through books, online courses, newspapers, seminars, and workshops.
- **Partnerships & Collaborations:** Partner with well-established firms or industry experts to leverage their knowledge and skills.

Challenge 2: Lack of Funds & Capital

At this stage of your technology startup's lifecycle, you will likely need capital to get things off the ground—whether it's hiring a team of qualified developers, setting up office space, or even investing in that coffee machine you've always wanted.

However, acquiring sufficient capital can be difficult. Investors may question the validity of your business plan since you have no track record, and banks may be reluctant to lend money due to the lack of financial stability.

Without sufficient capital, you may struggle to cover basic expenses, forcing you into a constant juggling act to maintain business momentum.

This challenge can be overcome through:

- **Government Incentives & Grants:** Look for various schemes promoted by the government that offer incentives or grants for tech startups.
- **Angel Investors:** High-net-worth individuals who invest in promising startups—one of them might be your ticket to funding.
- **Bootstrapping:** Use personal savings, pool funds with co-founders, and remain self-reliant. While challenging, this approach demonstrates commitment.
- **Venture Capital:** Target firms looking to invest in high-growth startups.
- **Competitions:** Participate in startup competitions where you can pitch your idea to a panel of investors who may fund your venture.
- **Crowdfunding:** Leverage platforms like Kickstarter or Indiegogo to raise funds from supporters who believe in your startup.

Challenge 3: Market Competition

Your competitors—more experienced and resourceful—will challenge you once you launch. Competing in a crowded market is like shouting in a packed room where everyone wants to be heard. Getting your startup noticed amidst all the noise can be difficult.

For example, intense market competition can lead to price wars, which may attract customers in the short term but can destroy profits in the long run. Established businesses continuously update their products and services, making it costly and exhausting to keep up.

With so many choices available, customer loyalty becomes difficult to establish. Competitors often have better economies of scale, stronger human resources, and mature supply chains, leaving startups at a disadvantage.

This challenge can be overcome through:

- **Targeting a Niche:** Find a niche that aligns with your strengths and become the go-to brand in that space.
- **Customer Loyalty:** Build exceptional customer experiences that encourage brand

advocacy. Happy customers become brand ambassadors.

- **Continuous Innovation:** Keep refining and improving your product to stay ahead of competitors.
- **Business Value Proposition:** Clearly articulate what makes your business unique and superior.
- **Data-Driven Decisions:** Use analytics to understand customer behavior and market trends to make informed business decisions.
- **Collaborations & Partnerships:** Partner with complementary businesses to expand your reach and share resources.

Challenge 4: Having the Right Person in the Right Place

One of the toughest challenges for a new business owner is recruiting the right people to bring their vision to life. You will need to search recruitment platforms, leverage connections, conduct interviews, and ultimately select the best candidates.

However, hiring skilled talent on a limited budget is difficult. The best candidates often demand high salaries, which startups may not be able to afford. Balancing the need for experienced professionals with the enthusiasm of newcomers is another challenge. Additionally, startups often lack structured hiring processes and face time constraints when filling key roles.

Even after assembling a strong team, retaining and motivating them becomes another challenge. Keeping employees engaged and committed to a startup's vision requires continuous effort.

This challenge can be overcome through:

- **Diversity:** Build a diverse team with different perspectives and skills to encourage innovation.
- **Professional Development:** Invest in training and upskilling employees to enhance their capabilities.
- **Incentives & Benefits:** If you can't offer high salaries, provide other incentives such as flexible work hours, career growth opportunities, or equity in the company.
- **Structured Hiring Process:** Define key hiring criteria, conduct structured interviews, and make timely hiring decisions.
- **Strong Company Culture:** Establish a clear company mission and values from the beginning to attract like-minded individuals.
- **Leveraging Networks:** Tap into your personal and professional network to find suitable candidates.

Challenge 5: Marketing and Customer Acquisition

Marketing can make or break a startup. Many startups struggle with ineffective marketing strategies, leading to wasted budgets and little return on investment.

You may have an excellent product or service, but without proper marketing, it may fail to reach the right audience. Identifying the right target market and the most effective channels to engage potential customers is a crucial challenge.

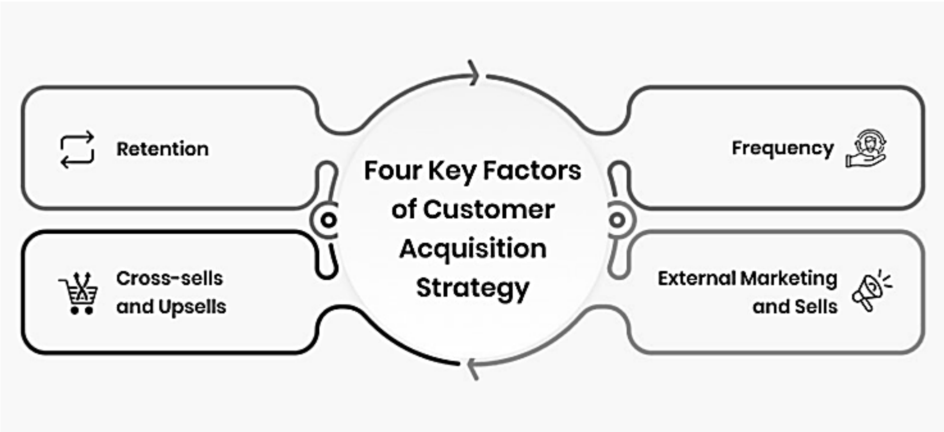
There is also intense competition, with many businesses targeting the same audience.

Differentiating your product and communicating its unique value can be challenging. Choosing the right marketing channel—whether social media, email marketing, content marketing, or traditional advertising—adds another layer of complexity.

This challenge can be overcome through:

- **Defining the Target Audience:** Clearly identify and understand the customer segments most likely to benefit from your product or service.
- **Strategic Marketing Approaches:** Utilize a combination of digital marketing, SEO, influencer marketing, and paid advertising based on market research.
- **Budget Optimization:** Allocate resources efficiently to maximize marketing impact while minimizing costs.
- **Building Brand Awareness:** Focus on storytelling and brand messaging to create a strong emotional connection with customers.
- **Leveraging Social Media & Content Marketing:** Use platforms like LinkedIn, Instagram, and Twitter, along with engaging blog content, to reach and educate potential customers.

This challenge can be overcome through:



- **Special deals:** People always want something for nothing. Make sure you offer them the best deals, such as limited-time offers, exclusive discounts, or special packages.
- **Track the results:** Closely monitor your marketing efforts. Analyze & adjust, review data, and be prepared to implement changes.
- **KYC:** Set aside time to learn as much as possible about your target audience. Who are they? What are they interested in? What problems do they face? One way to do this is by analyzing Google search results to understand their interests.
- **Online marketing:** Engage customers through social media, SEO, content marketing, and email marketing by reaching them where they spend most of their time.
- **Customer feedback:** Let satisfied customers speak for you. When prospects see that others have had great experiences, they will be more likely to trust and choose your business.

Challenge 6: Cash/Fund Flow Management

The main challenge in financial management is maintaining the right balance between income and expenditures. When cash flow is not managed properly, money flows out more rapidly than it comes in. You could even find yourself in a situation where you are unable to pay your bills, vendors, or employees at certain times.

One of the most common mistakes is underestimating costs or overestimating revenue. This could leave you stranded before ever reaching your destination. Guesswork is a weak foundation for any business operation.

Another challenge is an irregular income pattern. Some months may be booming, while others could be sluggish and slow. Cash flow fluctuations make it difficult to budget and plan for the future.

Excessive use of credit is also something to be avoided. While credit can be beneficial, improper use can be harmful. Careful and systematic credit utilization should never be a substitute for proper planning. Your credit scores and funding requirements are not determined solely by your financial records. Lenders and investors will conduct due diligence, and any signs of weakness may make them hesitant to invest in your startup.

This challenge can be overcome through:

SOURCES OF REVENUE

- Diversify revenue sources to reduce dependence on a single stream.

Managing Invoices & Payments

- Be proactive about when invoices are sent to customers and how many follow-ups are conducted.

Monitoring & Forecasting

- Monitor cash flow daily or weekly. This will help identify trends and make well-informed predictions for the future.

Contingency Fund

- Keep a percentage of profits as a cushion. This serves as a safeguard in case of financial setbacks.

Negotiation Techniques with Suppliers & Vendors

- Don't be afraid to negotiate better terms. Every penny saved has value.

Planned Budget

- Clearly outline planned expenditures and earnings in a transparent and detailed budget to prevent unnecessary detours.

Challenge 7: Being Optimistic

A fear that haunts any aspiring entrepreneur is the nagging voice whispering, *"What if it doesn't work? What if you're not good enough?"* This perfectly normal apprehension about the unknown, when taken to the extreme, can paralyze progress and prevent individuals from reaching their full potential.

This fear may stem from the pressure to succeed, meeting investors' or employees' expectations, or even self-imposed expectations. As a startup leader, you are responsible not only for your own success but also for the success of your team. This intensifies the fear of failure.

Consequences of Fear of Failure:

When fear dominates, it leads to **indecisiveness and lost opportunities**. You may find yourself hesitating at crucial decision-making moments, frozen like a deer in headlights. Fear also stifles innovation and creativity—when people are too afraid of making mistakes, they tend to play it safe and stick to conventional methods.

How to Overcome This Challenge:

- **Set Practical Goals:** Break down large goals into smaller, more achievable milestones.
- **Adopt a Growth Mindset:** Understand that failure is part of learning and growth. View failures as stepping stones to success.
- **Seek Alternatives:** Instead of dwelling on potential failures, focus on finding solutions.
- **Network:** Connect with mentors, advisors, and fellow entrepreneurs who can provide guidance and encouragement.
- **Celebrate Small Wins:** Recognize and reward progress. Acknowledging achievements fosters motivation and a sense of belonging.
- **Take Calculated Risks:** Risk-taking is essential, but ensure that each risk is well-researched and informed.
- **Failure Forward Learning:** Use setbacks as learning opportunities and stepping stones toward success.

Challenge 8: Time Management & Prioritization

One of the biggest challenges startup founders face is trying to fit everything into the limited hours of a day. As the leader of your company, you take on multiple roles—strategist, visionary, problem solver, marketer, and team leader. This makes prioritization and time allocation difficult.

Tasks seem endless; just when you think you've completed them, more appear. The daily challenges make it hard to set aside time for strategic planning and long-term development.

Common Time Management Pitfalls:

- **Overcommitment:** Accepting too many responsibilities without realizing you don't have enough time for them. This leads to burnout.
- **Lack of Prioritization:** Trying to do everything at once often results in accomplishing very little.

How to Overcome This Challenge:

- **Master Prioritization:** Identify the most critical tasks and focus on them first.
- **Plan:** Create a schedule that allocates time for different tasks and activities.
- **Set Goals & Deadlines:** Define achievable goals and set deadlines to stay accountable.
- **Recharge:** Take breaks to clear your mind. A well-rested brain is more productive.
- **Delegate Wisely:** Trust your team and assign responsibilities effectively. A strong system ensures efficiency.
- **Be Realistic:** Know your limits and avoid overcommitting. Accept only what aligns with your priorities and goals.

Challenge 9: Expanding the Business

You have built a promising startup, and business is taking off. Now comes the challenge of scaling. One of the first difficulties is handling the increasing demand. You want to fulfill every order, ship on time, and maintain the quality that brought you success.

Challenges of Business Expansion:

- **Maintaining Quality:** Growth should not come at the expense of product or service quality.
- **New Competitors & Market Shifts:** What worked in the early days may not be sufficient in a larger market.
- **Increased Resources:** Scaling requires more workforce, upgraded technology, and expanded infrastructure.

How to Overcome This Challenge:

- **Future Planning:** Forecast demand and prepare in advance for scaling. Set clear growth milestones.
- **Recruit & Develop the Right Team:** Hire skilled employees to manage the increased workload.
- **Automation & Streamlining:** Invest in technology and automation to improve efficiency.
- **Stay Agile:** Be open to change, monitor market trends, and adjust strategies as needed.
- **Customer Satisfaction Focus:** Never compromise on quality—your business's reputation depends on it.

CONCLUSION:

With an enormous number of startups emerging every day, some succeed while others do not. Regardless of their future, the challenges faced by startups are endless. However, clear objectives, transparency between all parties, and flexible planning are key to creating an achievable and balanced path forward.

Amid all the stress and confusion of running a successful startup, personal life often suffers the most. Managing time outside of work can become overwhelming. In such situations, seeking assistance can help you focus on your core skills, foster growth, and provide you with much-needed personal time and wellness.

REFERENCES

1. Aldrich, H. E., & Yang, T. (2014). How do entrepreneurs know what to do? Learning and organizing in new ventures. *Journal of Business Venturing, 29*(3), 351–366. https://doi.org/10.1016/j.jbusvent.2013.07.001
2. Autio, E., & Rannikko, H. (2016). Retaining winners: Can policy boost high-growth entrepreneurship? *Research Policy, 45*(1), 42–55. https://doi.org/10.1016/j.respol.2015.06.002
3. Baron, R. A. (2007). Behavioral and cognitive factors in entrepreneurship: Entrepreneurs as the active element in new venture creation. *Strategic Entrepreneurship Journal, 1*(1–2), 167–182. https://doi.org/10.1002/sej.16
4. Blank, S. (2013). *The four steps to the epiphany: Successful strategies for startups that win*. K & S Ranch.
5. Bradley, S. W., Wiklund, J., & Shepherd, D. A. (2011). Swinging a double-edged sword: The effect of slack on entrepreneurial management and growth. *Journal of Business Venturing, 26*(5), 537–554. https://doi.org/10.1016/j.jbusvent.2010.03.002
6. Brinckmann, J., Grichnik, D., & Kapsa, D. (2011). Should entrepreneurs plan or just storm the castle? A meta-analysis on contextual factors impacting the business planning–performance relationship in small firms. *Journal of Business Venturing, 25*(1), 24–40. https://doi.org/10.1016/j.jbusvent.2008.10.007
7. Cardon, M. S., & Stevens, C. E. (2004). Managing human resources in small organizations: What do we know? *Human Resource Management Review, 14*(3), 295–323. https://doi.org/10.1016/j.hrmr.2004.06.001
8. CB Insights. (2019). The top 20 reasons startups fail. Retrieved from https://www.cbinsights.com
9. Drover, W., Wood, M. S., & Fassin, Y. (2017). Financial resource acquisition in nascent ventures: The roles of prior start-up experience and self-efficacy. *Journal of Business Venturing, 32*(1), 120–138. https://doi.org/10.1016/j.jbusvent.2016.02.005
10. Eisenmann, T., Ries, E., & Dillard, S. (2012). Hypothesis-driven entrepreneurship: The lean startup. *Harvard Business School*.
11. Gompers, P., & Lerner, J. (2001). *The money of invention: How venture capital creates new wealth*. Harvard Business Press.
12. Greiner, L. E. (1998). Evolution and revolution as organizations grow. *Harvard Business Review*, *76*(3), 55–68.
13. Mazzucato, M. (2018). *The entrepreneurial state: Debunking public vs. private sector*

myths. Penguin Books.

14. Neck, H. M., & Greene, P. G. (2011). Entrepreneurship education: Known worlds and new frontiers. *Journal of Small Business Management, 49*(1), 55–70. https://doi.org/10.1111/j.1540-627X.2010.00314.x
15. Porter, M. E. (1980). *Competitive strategy: Techniques for analyzing industries and competitors*. Free Press.
16. Zott, C., & Amit, R. (2007). Business model design and the performance of entrepreneurial firms. *Organization Science, 18*(2), 181–199. https://doi.org/10.1287/orsc.1060.0232

ROLE OF E-COMMERCE IN BANKING SECTOR

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ABSTRACT

The internet has transformed the way goods and services are bought and sold over the past ten years. E-commerce is revolutionizing Indian consumers' purchasing experiences. With the advent of electronic data interchange, producers, retailers, traders, the stock market, operations, and travel bookings, among others, have contributed to the expansion of the economy.

"E-commerce" refers to conducting business online using computers, fax machines, and telephones. The term was first used by IBM in 1972. The European Union and the United States of America conducted the initial transactions. The advent of the internet market in 1995 marked the beginning of e-commerce in our nation. E-commerce, or electronic commerce, describes business transactions that occur over telecommunications networks, particularly the Internet.

E-banking's popularity has increased due to its ease of use and flexibility, in addition to transaction-related advantages such as speed, efficiency, and accessibility. E-commerce has facilitated payments and transactions through apps, allowing traditional brick-and-mortar banks to retain their customers. Many major banks engaged in e-commerce still have physical offices in certain communities, while many others have fully transitioned to online platforms.

E-commerce systems provide real-time data and analytics on products and customers. India's e-commerce market is expected to grow at a **27% CAGR** between **2019 and 2024**, reaching **US$99 billion** by 2024, with groceries and fashion/apparel being the primary drivers of online retail growth.

Keywords: *E-Banking, Internet, E-Commerce, Business.*

INTRODUCTION

For Indian banks, e-banking is a new delivery method. The online banking channel serves as a conduit for transactions as well as information. However, contrary to expectations, e-banking has not gained traction in India (Ravi et al., 2007).

A study conducted by Malhotra and Singh (2007) examined the adoption of e-banking by Indian banks. According to the report, larger banks or institutions that are younger, privately owned, and have fewer branches are more likely to adopt this new technology. Banks with a smaller market share also view e-banking technology as a way to expand their reach by attracting more clients through this new delivery channel.

E-banking refers to the practice of customers accessing their bank accounts and conducting financial transactions via the Internet. At its most basic level, Internet banking can be defined as a bank creating a website to provide details about its goods and services. At a more advanced level, it entails offering services such as online account access, money transfers, and the purchase of financial products or services. According to Sathye (1999), this is referred to as "transactional" Internet banking.

Traditionally, creating a bank account has always required a physical, in-person visit to a branch to sign a signature card. However, the online account opening process now allows banks to increase their geographic reach and enhance consumer convenience (Community Banker, 2006).

In the financial services industry, IT has become essential. For financial services and products, particularly in the banking sector, the Internet has proven to be a powerful tool. The banking industry was among the first to use technology to offer the latest means of conducting business. Banks have evolved and now provide services online, including computerization, networking, ATMs, and, most recently, e-banking. As a result, banks have moved up the value chain.

DEFINITION OF E-COMMERCE

E-commerce is the practice of purchasing or selling goods using the Internet or online services. Technologies such as supply chain management, Internet marketing, online transaction processing, mobile commerce, and electronic payment transfers are all used in electronic commerce.

HISTORY OF E-COMMERCE

E-commerce has been around for 40 years and continues to expand with new technologies and firms entering the market each year. In the 1970s, electronic data interchanges and teleshopping established the foundation for today's e-commerce stores. The history of e-commerce is strongly related to the history of the Internet. Online purchasing became possible only after the Internet was made available to the public in 1991. Amazon.com pioneered Internet sales in the U.S., inspiring many firms to follow suit. E-commerce has significantly improved in terms of ease, safety, and customer experience since its inception. This article highlights major players and milestones in e-commerce.

E-COMMERCE IN BANKING

ICICI was the first bank to promote its use, offering Internet banking to its customers in 1996. Online banking emerged in 1999, driven by decreased Internet costs and increased knowledge of electronic media. Other banks, such as HDFC, Citibank, IndusInd, and the now-defunct Times Bank, followed suit. On October 17, 2000, the Indian government passed the IT Act, which legalized electronic transactions and business. The Reserve Bank continuously monitors and reviews the legal and regulatory requirements of e-banking to ensure that it develops safely and does not threaten financial stability.

DEFINITION OF E-BANKING

The automated provision of both innovative and conventional banking products and services to clients via interactive electronic communication channels is known as e-banking. E-banking refers to the systems that allow consumers or businesses of financial institutions to access their accounts, conduct transactions, or obtain information about financial services and products via a public or private network, such as the Internet. Consumers use an intelligent electronic device, such as a touch-tone phone, automated teller machine (ATM), kiosk, personal digital assistant (PDA), or PC, to access e-banking services. Because the Internet is a publicly available network, this brochure focuses mainly on Internet-based services, even though the risks and controls are comparable across various e-banking access methods.

OBJECTIVES OF THE STUDY

1. To research the function of online banking services in the banking industry.
2. To investigate the online banking options that banks provide.
3. To examine the state and evolution of online banking in India.
4. To understand how e-banking adds value for both banks and their clients.
5. To recommend corrective actions to enhance the banking industry's e-banking offerings.

REVIEW OF THE LITERATURE

According to the literature currently in publication, the most frequently mentioned factors influencing e-banking use are ease of use (Venkatesh & Davis, 1996; Elizabeth, 1999; Poon, 2008), perceived simplicity of usage (Wang et al., 2003; Davis, 1989), and perceived utility (Wang et al., 2003; Davis, 1989). Additionally, perceived credibility (Wang et al., 2003), cost reduction (Devlin, 1995; Gerlach, 2000; Jun & Cai, 2001; Siriluck & Speece, 2003; Poon, 2008), trust (Hoffman et al., 1999; Gerrard & Cunningham, 2003), security (Sathye, 1999; Poon, 2008), and government support (Simon & Victor, 1994; Attaran, 2000; Zugelder et al., 2000; Bala et al., 2002) are also significant considerations.

Other factors include awareness and reluctance to change (Simon & Victor, 1994), choice of access to banks (Elizabeth, 1999), technology, staff helpfulness, and banks' reputation (Mols, 1998). According to Junadi (2015), e-commerce is expanding quickly and provides businesses with opportunities to boost online sales.

Dave Chaffey, in *E-Business and E-Commerce Management* (5th edition), along with Marshall, P., Lee, J., McKay, J., and King, D., discusses how the e-payment system offers numerous advantages to banks, organizations, governments, payees, and e-commerce. These benefits could encourage the widespread adoption of electronic payment methods.

According to Baah-Acquah and Freeman (2016), the implementation of e-commerce by banks has enhanced communication within organizations, reduced paperwork, and enabled cost-effective operations.

Arumugam and Iyappan (2016) examined different insurance product advertising strategies that increase the value of insurance product sales.

Hasan (2021) highlighted big data's benefits, challenges, and banking security as crucial data-driven concerns in the banking sector.

METHODOLOGY OF THE STUDY

E-Commerce Banking offers bill payment services.

- Account balance inquiry
- Online shopping
- Credit card transactions
- Smart cards
- Payment options include cheques, internet banking, fund transfers, and credit cards.
- Phone banking
- Investment options include internet banking, automated teller machines (ATMs), and

debit cards.
- EFT system
- Mobile banking
- Internet banking – electronic funds transfer system – internet-based investment
- Automated teller machines
- Offers bill payment services
- Applying for/claiming insurance

GROWTH OF E-BANKING IN INDIA

Financial changes of the 1990s, together with globalization and liberalization, created a new operating environment for banks. Banks are competing by delivering innovative technology-based services like *Anywhere Anytime Banking*, *Tele-Banking*, *Internet Banking*, and *Web Banking* to customers.

In the early 1980s, the Reserve Bank of India (RBI) established two committees to quickly automate banking procedures. Dr. C. Rangarajan, then RBI Governor, chaired a team to develop a five-year strategy for computerization and mechanization in the banking sector (1985–1989). During this time, customer service was prioritized, and two branch automation models were created and deployed.

In 1988, the second Rangarajan committee developed a comprehensive plan to computerize banks and expand automation to include funds transfer, email, BANKNET, SWIFT, ATMs, and e-banking. On October 17, 2000, the Government of India passed the Information Technology Act, 2000 (IT Act), to legalize electronic transactions and business. The RBI formed a *Working Group* to explore various elements of e-banking. The group concentrated on three key areas of e-banking: technology and security, legal challenges, and regulatory and supervisory issues. The RBI approved the *Working Group* suggestions and published guidelines for banks to deploy internet banking in India.

The *Working Group* reported on many elements of e-banking. In India, e-banking is still in its early stages. Many organizations specialize in developing e-banking and security software, as well as website design and maintenance, but few offer online financial services. ICICI Bank was the first to use e-banking for limited services, including account information, correspondence, and financial transfers between branches. ICICI is expanding its offerings to include e-trading, providing customers with more integrated options.

Several finance portals for the provision of non-banking financial services, e-trading, and e-broking have emerged. Commercial applications, like Electronic Bill Presentment (EBP) and procurement systems, are expected to have a greater impact in India than retail applications. The corporate sector is computerized and recognizes the importance of e-commerce for the future. Companies are creating websites despite the lack of immediate rewards.

ADVANTAGES OF E-BANKING

E-banking uses computers to store, analyze, aggregate, find, and display data quickly and precisely, overcoming the limitations of manual processes. The advent of e-banking brings several benefits to many.

ADVANTAGES TO THE BANKS

- E-banking services help to increase earnings.
- E-banking offers banks a competitive advantage by allowing for a network without boundaries.
- Connecting with ATMs and POS terminals eliminates the risk of cash overdrawal for ATM credit and debit cards.
- E-banking allows banks to use plastic money instead of paper money, reducing the cost of storing large amounts of currency notes and coins.
- E-banking websites might generate cash through promotions.
- E-banking allows customers to access services from anywhere, reducing the need for additional infrastructure investments.
- Offering financial convergence on websites can increase client engagement and the usage of banking services.

ADVANTAGES TO THE CUSTOMERS

- Reduced fees for obtaining and using banking services.
- Transactions can be made 24/7 without physical interaction with the bank, resulting in increased convenience and time savings.
- Corporations will benefit from quick and continuous access to information, allowing them to check several accounts with a single click.
- E-banking improves cash management by providing access to a wide range of cash management tools on Estonian bank websites, leading to faster cash cycles and increased corporate efficiency.
- Reduced costs for banking goods and services.

ADVANTAGES TO TRADERS AND MERCHANTS

- It facilitates speedy payment and settlement for traders' transactions.
- Offers business services comparable to international standards at minimal transaction costs.
- Avoids excessive costs and risks associated with handling cash in company transactions.
- The rise of e-banking leads to increased clients both globally and locally.
- Other advantages include improved image, better customer service, less paperwork, lower waiting expenses, and greater flexibility.

Users prioritized simplicity, security, and service in their online banking experience.

SIMPLICITY

Both users and non-users expect online banking to become even more simplified than it is now. Several expectations:

- Improved link label clarity to indicate necessary action.
- Improved navigation to display relevant information in context and at the appropriate moment.
- Improved content partitioning by popularity and priority of action.

SECURITY

Non-transactors and non-users cited security concerns, technological problems, and a lack of extra security gateways as reasons for not transacting online.

SERVICE

Almost all customers desired better service.

- They desired more online services, faster.
- Customer care channels (e.g., online chat for banking issues) and fewer barriers.
- An innovative and user-friendly interface.

CHALLENGES OF E-BANKING

E-banking requires a centralized entity to establish norms, regulate, and properly oversee its operation. Effective security measures are crucial for successful internet banking operations. This requires the use of advanced technological devices and processes to safeguard electronic banking transactions.

The Reserve Bank of India established a working group on internet banking to address three key areas:

TECHNOLOGY AND SECURITY ISSUES

Because online banking depends on it, this issue is crucial. Given the significance of the matter, the RBI has issued the following guidelines:

i. Banks ought to have a properly established security policy.

ii. Logical access restrictions for data, systems, utilities, application software, telecommunications lines, system software, etc., should be implemented by banks. Techniques for logical access control could involve smart cards, passwords, user IDs, or other biometric devices.

iii. All bank applications must be properly documented, and all computer accesses, including messages received, must be recorded.

LEGAL ISSUES

i. Banks have a duty to inquire into the integrity and reputation of potential clients in addition to confirming their identity.

ii. The Indian consumer's rights are outlined in the Consumer Protection Act of 1986, which also applies to banking services.

iii. In the context of online banking, banks have very little power to respond to consumer requests to halt payments. Therefore, banks should make it plain to their clients when and under what conditions any stop-payment instructions may be accepted.

REGULATORY AND SUPERVISORY ISSUES

i. The RBI regularly regulates and oversees banks that operate in the real world, and this also applies to online banking. Only banks with physical locations in India, as well as licenses and supervision in India, will be allowed to provide internet banking services to Indian citizens. Therefore, banks and virtual banks that are not physically located in India and were not incorporated there would not be allowed to use online banking.

ii. The items should not be made available in other jurisdictions and should only be available to account holders.

RECOMMENDATIONS

i. People should be made aware of e-banking services and goods by e-banks. It is important to educate customers on how to use e-banking services and products.
ii. To guarantee complete security of client funds, banks should take special safeguards. By hiring skilled and knowledgeable computer technicians, technical defaults and data loss can be prevented.
iii. To further encourage customers to adopt e-banking, bank employees should receive specialized technical training on its use.
iv. Workshops and seminars on the responsible use of e-banking ought to be held, particularly for people who lack computer literacy or are not familiar with ATMs.
v. To ensure that people's needs and requirements are satisfied, e-banking services ought to be tailored based on factors like age, gender, and employment.
vi. The government ought to invest heavily in infrastructure development.

CONCLUSIONS

The study shows that Indian consumers are not very aware of the benefits of using e-banking services. Nonetheless, bankers' advice and influence do encourage clients to adopt these services. Banks must divide their clientele according to demographic priorities (such as age, gender, occupation, etc.) and tailor e-banking services to meet their demands and specifications in order to increase the popularity of e-banking.

Banks are sincerely working to increase the use of e-banking services and products. The younger generation is starting to realize how convenient and advantageous online banking is. E-banking will become the preferred method of banking in the years to come, in addition to being a recognized one.

REFERENCES

1. Ahmed, F. (2001). Electronic commerce: An Indian perspective. *International Journal of Law and Information Technology, 9*(2), 133–170.
2. Akilandeswari, S., & Malliga, A. L. (2015). E-services provided by the banking sector. *Shanlax International Journal of Management, 3*(1), 1–6.
3. Anthony, R. N. (2002). *Text and cases on management accounting*. Richard D. Irvin, Inc.
4. Arumugam, U., & Iyappan, A. (2016). Promotional mix of insurance products: A value addition to insurance product sales. *PARIPEX-Indian Journal of Research*, *5*(7), 16–18.
5. Chaffey, D. (2015). *E-business and e-commerce management* (5th ed.). Pearson.
6. Fathima, S. J. (2020). Digital revolution in the Indian banking sector. *Shanlax International Journal of Commerce, 8*(1), 56–64.
7. Stalin, D. C., & Al-Manayseh, M. N. (2020). Economic and financial implications of e-banking in India. *Shanlax International Journal of Commerce*, *8*(2), 22–29.
8. Tan, M., & Teo, T. S. H. (2000). Factors affecting internet banking adoption. *Journal*

of the Association for Information Systems, *1*, 1–44.

9. Turban, E., & Viehland, D. (2008). *An overview of electronic trade from a managerial standpoint*. Pearson.
10. The Lawyers Club of India. (n.d.). Retrieved from https://www.lawyersclubindia.com
11. Miva. (n.d.). Retrieved from https://www.miva.com
12. Academia. (n.d.). Retrieved from https://www.academia.edu

From Earning to Empowerment: Exploring Financial Choices and Digital Influences among Working Women in India

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ABSTRACT

The word 'Empowerment' means the process of gaining control, authority, and confidence to make one's own decisions. It brings self-confidence, the power to raise one's voice, and participation in decision-making activities. With changing times and increasing education levels, along with greater participation of females in the workforce, the investment and savings patterns among working women have also changed.

Nowadays, women are also contributing to household expenses and becoming breadwinners in their families. With the assumption of this role, it is crucial for working women to multiply their earnings and invest in fields with the power of compounding to secure their future and that of their dependents. Savings increase personal security and provide peace of mind, offering a way to overcome financial disasters such as COVID-19, loss, disability, etc.

Decisions determine destiny. Correct decisions taken at the right time can prove fruitful in the future. The recent investment pattern is undergoing a significant transformation, shifting from traditional investment alternatives like bank deposits, gold, post office schemes, and real estate to modern alternatives like mutual funds and equities. With the changing economic scenario, including the rising cost of living and job-specific risks, it is important to leverage the benefits provided by these modern alternatives to survive and thrive in the future.

Traditionally, women have been more risk-averse than men, always preferring safer options. However, with increasing education levels, they are becoming more comfortable with a wider range of investment options by understanding the power of compounding, inflation, and risk diversification.

Keywords: *Financial Choices, Women Empowerment, Investment*

INTRODUCTION

The pattern of investment is influenced by factors such as education, income levels, financial literacy, family responsibilities, social influences, risk tolerance, etc. The economic progress in India also includes a rising number of women participating in various professional sectors. With the increase in financial autonomy, the investment pattern of working women has become a vital indicator of their financial well-being and economic empowerment. As the state continues to evolve, the financial empowerment of its working women will play a crucial role in shaping the region's economic future.

Despite this progress, existing literature often overlooks the specific financial habits of working women, their investment behavior, and savings patterns. This research aims to fill this gap by examining how independent working women are in making their own financial decisions, how much digital influence there is on investment and savings behavior and identifying the financial challenges they face. By exploring these aspects, the study seeks to provide a comprehensive understanding of the financial patterns of this demographic group, offering insights that could inform targeted financial education programs and policies.

In an area predominantly male-oriented, women are progressing and becoming industrial leaders. The major motives for investments are:

- High Return
- Emergency Needs
- Child’s Education
- Retirement Corpus
- Increase in Standard of Living
- Foreign Tours
- Secondary Source of Income
- Luxury
- Tax Savings
- Wealth Accumulation

INVESTMENT AVENUES

1. **Equity (Stocks)**
   - **Expected Return:** Typically, 7% - 15% annually, but can vary widely based on market conditions.
   - **Characteristics:** High potential returns, high risk, requires market knowledge.
2. **Mutual Funds (SIPs)**
   - **Expected Return:** Typically 5% - 12% annually, depending on the type of fund and market conditions.
   - **Characteristics:** Diversified investments, managed by professionals, varying risk levels.
3. **Insurance (Life, Medical)**
   - **Expected Return:** Varies widely; traditional life insurance policies generally offer returns around 4% - 6%, while investment-linked insurance plans (ULIPs) may offer higher returns.
   - **Characteristics:** Provides financial protection, tax benefits, often lower returns compared to pure investment avenues.
4. **Public Provident Fund (PPF)**
   - **Expected Return:** Around 7% annually, subject to change based on government revisions.
   - **Characteristics:** Long-term savings, tax benefits, safe and government-backed.
5. **Fixed Deposits (FDs)**
   - **Expected Return:** Generally 3% - 7% annually, depending on the bank and tenure. HDFC and other banks may offer up to 7% for certain tenures.
   - **Characteristics:** Low risk, guaranteed returns, fixed tenure.
6. **Government Bonds**
   - **Expected Return:** Typically 2% - 7%, depending on the specific bond and

duration. Recent rates are closer to the lower end.
   - **Characteristics:** Safe investment, low to moderate returns, government-backed.

7. **Gold, Silver, Diamond**
   - **Expected Return:** Highly variable; gold typically has long-term returns averaging 17% annually, but this can fluctuate based on market conditions.
   - **Characteristics:** Tangible assets, hedge against inflation, subject to market volatility.
8. **Post Office Schemes (NSC, KVP)**
   - **Expected Return:** NSC (National Savings Certificates) around 7% annually; KVP (Kisan Vikas Patra) around 7.5% annually, subject to periodic changes.
   - **Characteristics:** Government-backed, safe, with tax benefits on certain schemes.
9. **Real Estate**
   - **Expected Return:** Typically 6% - 8% annually, though this can vary significantly based on location and property type.
   - **Characteristics:** Long-term investment, potential for capital appreciation, requires substantial capital.
10. **Savings Account**

- **Expected Return:** Bank savings accounts generally offer up to 3.5% annually; Post Office savings accounts around 4%.
- **Characteristics:** High liquidity, low returns, low risk.

FACTORS AFFECTING THE SELECTION OF INVESTMENT AVENUES

- **Return** – The potential earnings from the investment.
- **Liquidity** – Ease with which the investment can be converted to cash.
- **Tax Benefits** – Investments like PPF, ELSS (Equity Linked Savings Scheme), and certain insurance policies offer tax benefits.
- **Safety of Principal Amount** – Protection of the original investment amount.
- **Inflation Rate** – The rate at which the general level of prices for goods and services is rising.
- **Stability** – Consistency in returns and safety of the investment.

PARAMETERS INFLUENCING INVESTMENT DECISIONS

- Income & Expenditure
- Age
- Investment Experience
- Risk-Taking Capacity
- Influence of Family Members
- Word of Mouth
- Awareness About Investment Options
- Willingness

- Education
- Newspapers, Journals, Magazines, etc.
- Health Status

FINANCIAL APPLICATIONS AND PLATFORMS FOR INFORMED DECISION-MAKING

- ET Money
- IND Money
- Kuvera
- Groww
- Scripbox
- Upstox
- Zerodha
- My CAMS
- Paytm Money
- 5 Paisa

WHY WOMEN?

- When women understand and practice good financial management, they are better positioned to pass on sound financial knowledge and habits to the next generation. This can have a long-term impact on the financial stability and prosperity of future generations.
- Women often play a central role in managing household finances, and their financial literacy can ensure that family resources are allocated wisely, supporting education, health, and overall well-being.
- There is a significant gender gap in financial literacy and investment participation, with women generally being less involved in complex financial decision-making. A study can highlight areas where women lack knowledge or face barriers, helping to develop targeted educational programs that address these gaps.
- Women typically live longer than men, which means they need to plan for a longer retirement period. However, women are often less prepared for retirement due to factors such as lower earnings, career breaks, and conservative investment strategies.
- With the rise of digital financial services and fintech solutions, it is important to understand how women are engaging with these new technologies. A study can identify whether women prefer digital platforms for investing, what barriers they face, and how technology can be leveraged to enhance their financial engagement. It might help fintech companies create innovative products that suit women's financial behavior.

NEED FOR THE STUDY

SCOPE OF THE STUDY

The study aims to identify the unique financial behaviors and challenges faced by working women. It seeks to provide insights into how financial behaviors are evolving.

OBJECTIVES OF THE STUDY

- Do they take their own financial decisions? (Independency in decision-making)
- To examine the influence of digital financial platforms and tools (mobile banking apps, online trading platforms) on the investment and savings behavior of working women.
- To explore the impact of demographic factors (such as age, education, income, marital status, and occupation) on the investment behavior and savings patterns of working women.
- To identify the financial challenges faced by working women due to career breaks, limited income, lack of access to financial resources, or more trust in conservative products.
- To analyze the types of investment instruments preferred by working women.

REVIEW OF LITERATURE

1. Kotian, S., & Aithal, P. S. (2024). The Influence of Socio-Economic Factors on Savings and Investment Decisions of School Teachers—A Study with Reference to Women Teachers in Kodagu District of Karnataka. International Journal of Management, Technology, and Social Sciences (IJMTS), 9(1), 33-46. The study suggests that awareness should be created among women teachers about the financial advantages of investing and saving, as well as the drawbacks of excessive spending.
2. Yuliani, Y., Taufik, T., Malinda, S., & Umrie, R. H. (2024). Impact of Financial Literacy and Financial Behavior on Investment Among Millennials in Indonesia: The Moderating Role of Risk Profile. International Journal of Financial Studies, Economics and Management, 3(1), 13-25. Found out that 30% of the respondents had not yet invested.
3. Joshi, H. (2024). Impact of TV Commercials on Investment Behaviour of Women in India. International Journal of Management, Economics and Commerce, 1(1), 25-28. States that, as per a finding by Nitin Kamath, Chief Executive Officer of Zerodha Brokerage Ltd. (one of India's largest online brokerage platforms), there are about 10-12 million trades recorded on his platform each day, with most investors below the age of 30. However, the disparity between the number of male and female investors is huge in India, as only 21% of women participate in stock market investments. The study also states that women are largely reliant on others for investment decisions.
4. Ananda, S., Kumar, R. P., & Dalwai, T. (2024). Impact of Financial Literacy on Savings Behavior: The Moderation Role of Risk Aversion and Financial Confidence. Journal of Financial Services Marketing, 1-12. States that there is a need to promote financial education programs in schools and higher education institutions.
5. Baig, M. I., Sharma, R., & Shukla, N. (2023). A Study on Income, Savings, Expenditure, and Investment Pattern of Urban Households with Special Reference to Ghaziabad District, Uttar Pradesh (India). Dr. Riyazuddin. According to the study, households save their money in various forms such as deposits, stocks, and bonds. However, the majority are not aware of or interested in investing in capital markets,

where they could earn higher returns.

6. Shetty, R., & Aggarwal, P. (2024). Study on the Investment Perceptions and Preferences for Various Investment Options of Working Women. Educational Administration: Theory and Practice, 30(5), 11539-11545. The study concludes that working women prefer to invest in bank fixed deposits (FDs), recurring deposits (RDs), life insurance, and precious metals (gold, silver, etc.). They have mixed reactions toward market-linked investment avenues.
7. Saxena, A., & Rastogi, M. (2024). Women's Financial Behaviour in the Workplace. International Research Journal on Advanced Engineering and Management (IRJAEM), 2(06), 1860-1865. Key findings from this paper indicate that women tend to prioritize short-term financial goals, are more risk-averse in their investment choices, and face unique challenges in retirement planning due to longer life expectancies and career interruptions.
8. Pandian, T., & Kumar, G. V. (2024). Investment Behaviour of Employees Working in Educational Institutions. Educational Administration: Theory and Practice, 30(3), 2020-2025. Stated in their study that financial education and inclusion initiatives play a significant role in enabling working women to make informed choices about their professional and personal finances. In the quest for economic empowerment, it is vital that institutions and governments continue to address these issues.
9. Dhoundiyal, M., & Pareek, N. (2024, March). Analysis of Savings and Investments in the First Ten Years of Employment in Dubai. In BUiD Doctoral Research Conference 2023: Multidisciplinary Studies (pp. 481-491). Cham: Springer Nature Switzerland. States in their paper that there is a significant relationship between gender and investment awareness. Men are relatively more aware of investment and savings avenues compared to women. Women are more inclined to invest in gold than their male counterparts.
10. Soomro, Y. A., Ali, M., Yaqub, M. Z., Ali, I., & Badghish, S. (2024). Financial Education is More Precious Than Money—Examining the Role of Financial Literacy in Enhancing Financial Well-being Among Saudi Women. International Journal of Business Performance Management, 25(1), 1-24. The study provides important implications for policymakers in their efforts to increase financial literacy, financial socialization, and financial coping behavior among Saudi women to improve their financial and overall well-being. Although some financial training programs are available in the Kingdom, they mainly target young students and operate on a relatively small scale. These programs need to be expanded in terms of inclusivity and rigor.

RESEARCH METHODOLOGY

- **Data Collection:** A structured questionnaire was used to gather primary data from a sample of 56 respondents. Additionally, secondary data have also been used from a variety of sources like journals, news articles, various websites, etc.
- **Sample Size:** The sample size is 56.

- **Sampling Technique:** The random sampling technique is implemented.
- **Analytical Tool:** The collected data has been analyzed using the Chi-Square Test and ANOVA Test wherever required.

Data Analysis & Interpretation

A2 & A6

- **H_0:** There is no significant association between educational qualification and preferred investment option.
- **H_1:** There is a significant association between educational qualification and preferred investment option.

Table 1: Association between Educational Qualification and Preferred Investment Option Chi-Square Tests			
	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.324[a]	4	.080
Likelihood Ratio	10.343	4	.035
Linear-by-Linear Association	2.876	1	.090
N of Valid Cases	56		

Interpretation from the above Table 1:

We infer that the Chi-Square Test Value is 8.324 and the significance value is 0.080. Since the significance value is greater than 0.05, we accept the Null Hypothesis and reject the Alternate Hypothesis. This means that the preference for investment options is independent of the educational qualification of individuals.

A4 & A6

- **H_0:** There is no significant difference in investment preferences (traditional vs. modern) across different annual income groups.
- **H_1:** There is a significant difference in investment preferences (traditional vs. modern) based on annual income.

Table 2: Significant difference between Annual Income and Investment preferences

ANOVA					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.217	4	.804	4.046	.006
Within Groups	10.140	51	.199		
Total	13.357	55			

Interpretation from the above Table 2:

We infer that by applying the ANOVA test, the significance value is 0.006. Since the significance value is less than 0.05, we reject the Null Hypothesis and accept the Alternate Hypothesis. Thus, there is a significant difference in choosing investment options among different income groups. This means that the higher the income, the greater the preference for modern investment alternatives.

A6 & A10

- **H_0:** There is no association between investment preference (traditional vs. modern) and the frequency of mobile banking app usage or digital platform usage for managing finances.
- **H_1:** There is an association between investment preference (traditional vs. modern) and the frequency of mobile banking app usage or digital platform usage for managing finances.

Table 3: Association between Investment Preferences and frequency of using mobile banking apps.

Chi-Square Tests			
	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.519	4	.021
Likelihood Ratio	15.629	4	.004
Linear-by-Linear Association	6.155	1	.013
N of Valid Cases	56		

Interpretation from the above Table 3:

We infer that the Chi-Square Test Value is 11.519 and the significance value is 0.021. Since the significance value is less than 0.05, we reject the Null Hypothesis and accept the Alternate Hypothesis. This means that there is an association between investment preference and the frequency of using mobile banking apps. Those who prefer modern investment options tend to use digital platforms more.

A10 & A15

- **H_0:** There is no association between the frequency of mobile banking or digital platform usage and the frequency of reviewing an investment portfolio.
- **H_1:** There is an association between the frequency of mobile banking or digital platform usage and the frequency of reviewing an investment portfolio.

Table 4 : Association between the frequency of mobile banking or digital platform usage and the frequency of reviewing an investment portfolio.

Chi-Square Tests			
	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	28.623[a]	16	.027
Likelihood Ratio	32.392	16	.009
Linear-by-Linear Association	1.343	1	.246
N of Valid Cases	56		

Interpretation from the above Table 4:

We infer that the Chi-Square Test Value is 28.623 and the significance value is 0.027. Since the significance value is less than 0.05, we reject the Null Hypothesis and accept the Alternate Hypothesis. This means that there is an association between the frequency of mobile banking or digital platform usage and the frequency of reviewing an investment portfolio. Thus, people who use mobile banking or digital platforms more frequently may also be more likely to review their investment portfolio more regularly.

A10 & A11

- **H_0:** There is no association between the frequency of using mobile banking apps/digital platforms (like Zerodha, Scripbox) and the influence these platforms have on investment and savings behavior.
- **H_1:** There is an association between the frequency of using mobile banking apps/digital platforms (like Zerodha, Scripbox) and the influence these platforms have on investment and savings behavior.

Table 5: association between the frequency of using mobile banking apps/digital platforms and the influence these platforms have on investment and savings behavior.

Chi-Square Tests			
	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	22.085[a]	12	.037
Likelihood Ratio	24.843	12	.016
Linear-by-Linear Association	5.426	1	.020
N of Valid Cases	56		

Interpretation from the above Table 5:

We infer that the Chi-Square Test Value is 22.085 and the significant value is 0.037. Since the significant value is less than 0.05, we reject the Null Hypothesis and accept the Alternate Hypothesis. This indicates that individuals who use mobile banking apps or digital platforms (like Zerodha, Scripbox) more frequently are more likely to have their investment and savings behavior affected or influenced by these platforms.

Findings

On the basis of the above analysis, based on primary data from 56 respondents, it is observed that:

a. 46% of the working women don’t use mobile banking apps or any digital platforms for managing their finances.

b. 73% of the working women do not make their own financial decisions without consulting anyone.

c. 79% of the working women tend to trust conservative financial products (e.g., savings accounts, bonds, LIC, gold) over modern investment products like mutual funds.

d. More than 50% of married working women have taken career breaks, which affected their financial stability.

e. Approximately 34% of the working women feel that they lack financial knowledge.

f. Approximately 41% of the working women rarely review their investment portfolio.

CONCLUSION

The findings from this research offer valuable insights into the financial behaviors, decision-making processes, and knowledge gaps that impact the financial well-being of women in the Indian workforce. The study highlights several key patterns that are crucial for understanding the financial challenges and opportunities faced by working women.

Firstly, a significant number of women still refrain from using mobile banking apps or digital platforms to manage their finances, which indicates a potential barrier to modern financial engagement, possibly due to a lack of familiarity, access, or trust in digital financial services. Furthermore, many respondents indicated they do not make financial decisions independently, suggesting more trust in external advice and a lack of confidence in making independent financial decisions.

The study also found that over 50% of married women had experienced career breaks, which impacted their financial stability. The impact of such career interruptions on financial planning and long-term security is significant, highlighting the need for strategies that address these vulnerabilities.

Additionally, many respondents expressed concerns about their financial knowledge, pointing to a clear gap in financial literacy that may hinder their ability to engage with more advanced financial products or make informed decisions. Again, 41% of women rarely review their investment portfolios, which suggests a passive approach to managing their finances, potentially leading to missed opportunities for optimizing returns or reassessing financial goals.

In conclusion, this research highlights the importance of financial education and empowerment for working women. There is a clear need for initiatives that enhance financial literacy, promote the use of digital tools, and build confidence in financial decision-making. Addressing these gaps could lead to greater financial independence, stability, and growth for women, both in the short and long term. Financial institutions, policymakers, and educational bodies must prioritize initiatives that support working women in navigating the increasingly complex financial landscape, particularly in the context of evolving career trajectories and changing family dynamics.

Ultimately, by fostering a deeper understanding of financial management and encouraging greater engagement with modern financial products, women can be better prepared to make informed decisions that enhance their financial well-being and security.

REFERENCES

1. Ananda, S., Kumar, R. P., & Dalwai, T. (2024). Impact of financial literacy on savings behavior: The moderation role of risk aversion and financial confidence. *Journal of Financial Services Marketing*, 1–12.
2. Baig, M. I., Sharma, R., & Shukla, N. (2023). A study on income, savings, expenditure, and investment pattern of urban households with special reference to Ghaziabad District, Uttar Pradesh (India). *Dr. Riyazuddin*.
3. Dhoundiyal, M., & Pareek, N. (2024, March). Analysis of savings and investments in the first ten years of employment in Dubai. In *BUiD Doctoral Research Conference*

2023: Multidisciplinary Studies (pp. 481–491). Cham: Springer Nature Switzerland.

4. Joshi, H. (2024). Impact of TV commercials on investment behaviour of women in India. *International Journal of Management, Economics and Commerce, 1*(1), 25–28.
5. Kotian, S., & Aithal, P. S. (2024). The influence of socio-economic factors on savings and investment decisions of school teachers—A study with reference to women teachers in Kodagu District of Karnataka. *International Journal of Management, Technology, and Social Sciences (IJMTS), 9*(1), 33–46.
6. Pandian, T., & Kumar, G. V. (2024). Investment behaviour of employees working in educational institutions. *Educational Administration: Theory and Practice, 30*(3), 2020–2025.
7. Saxena, A., & Rastogi, M. (2024). Women's financial behaviour in the workplace. *International Research Journal on Advanced Engineering and Management (IRJAEM), 2*(06), 1860–1865.
8. Shetty, R., & Aggarwal, P. (2024). Study on the investment perceptions and preferences for various investment options of working women. *Educational Administration: Theory and Practice, 30*(5), 11539–11545.
9. Soomro, Y. A., Ali, M., Yaqub, M. Z., Ali, I., & Badghish, S. (2024). Financial education is more precious than money—Examining the role of financial literacy in enhancing financial well-being among Saudi women. *International Journal of Business Performance Management, 25*(1), 1–24.
10. Yuliani, Y., Taufik, T., Malinda, S., & Umrie, R. H. (2024). Impact of financial literacy and financial behavior on investment among millennials in Indonesia: The moderating role of risk profile. *International Journal of Financial Studies, Economics and Management, 3*(1), 13–25.

A Study on Digital Transformation of Investment Processes Through Mobile Payments in Chennai

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ABSTRACT:

The widespread use of mobile technology has transformed the financial ecosystem in India, promoting digital inclusion and accelerating growth. This study provides a comprehensive analysis of the various factors influencing investment decisions in India, focusing on the role of mobile devices in business behavior. The study draws on existing research through qualitative literature review, bibliometric analysis, and design to identify key themes, outcomes, and risks associated with investment. The study is based on the Theory of Planned Behavior (TPB), which provides a framework for examining the psychological, social, and environmental influences on people's willingness to invest through behavior. The findings are based on an analysis of costs, ease of use, governance, and perceived risk. The proven effectiveness and ease of use demonstrate the importance of technology in improving the accessibility, efficiency, and usability of financial services. This content highlights the health and ethical implications of investment decisions and identifies key risks related to security, privacy, and trust in digital platforms. The research shows that there are differences between these factors, which together affect people's investment intentions and behaviors. These ideas have important implications for policymakers, financial institutions, and technology developers, and provide recommendations on how to support financial services, increase child participation, and improve financial literacy. Finally, this research helps us understand how mobile technology can transform resources and contribute to job growth in emerging economies such as India.

Keywords:

Mobile Technology Adoption, Investment Decisions, Financial Inclusion, Digital Transformation, Digital Payments, Emerging Markets, Financial Technology (FinTech).

INTRODUCTION:

The recent rapid growth of financial technology (fintech) has brought about rapid changes in the financial sector. This technological revolution has brought about new products, services that are simple, fast, and cheap, and has redefined the way people and organizations finance their businesses. As fintech continues to evolve, researchers are trying to understand the factors that influence fintech adoption by focusing on user adoption and behavior.

Recent studies have made significant contributions to our understanding of fintech. For example, Al-Saedi (2020) extended the Unified Acceptance and Technology (UTAUT) model to examine the factors that influence the adoption of mobile payments, highlighting the important role of visual value, ease of use, and social influence. Jarvis (2021) explores the evolution of fintech in financial services, highlighting its potential to improve financial inclusion and reduce costs.

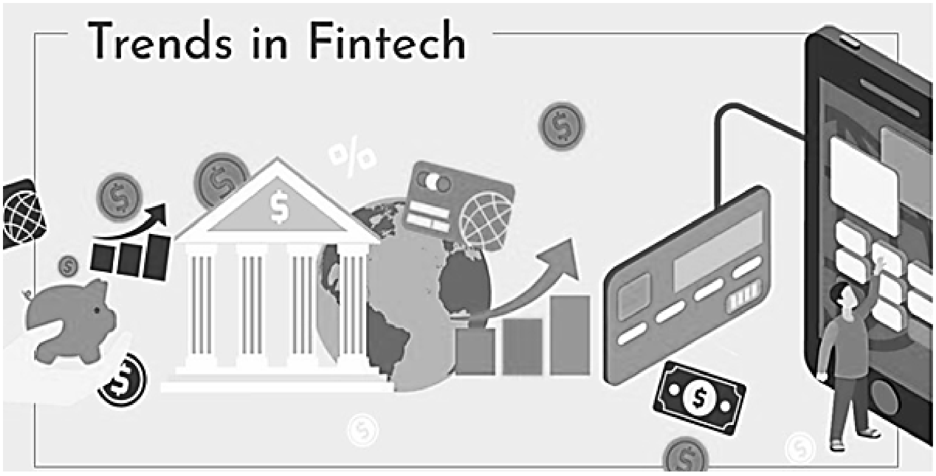
Other researchers have explored specific contexts and demographics. Chong (2021) and Daragmeh (2021) focused on factors influencing mobile stock trading application adoption among young Malaysian investors and Hungarian Generation X's intentions to adopt mobile payments during the COVID-19 pandemic, respectively. These studies underscore the importance of considering regional and demographic differences in fintech adoption.

Further research has explored the factors driving mobile investment technology adoption among investors. Fan (2022) and Lan An (2022) identified key influences on user acceptance, including perceived risk, trust, and financial literacy. Additionally, comprehensive bibliometric analyses by Garg (2023) and Jain (2023) have provided valuable insights into fintech trends and digital finance, as well as fintech's risk landscape.

Moreover, Kelvin (2024) extended the Mobile Technology Acceptance Model to investigate investors' intentions to adopt mobile investment platforms, emphasizing the significance of personal factors and perceived reputation. Khazratkulov (2023) analyzed the legal implications of the fintech revolution, highlighting challenges and opportunities arising from digital transformation in finance.

Systematic literature reviews and bibliometric analyses by Barroso (2022) and Nasir (2021) have explored the intersection of digital transformation and fintech's emergence. Furthermore, Suryono (2020), Zhan (2023), and Zou (2023) examined the complexities, future directions, and impact of fintech on corporate investment decisions and the financial technology sector.

Building on this existing body of knowledge, this study aims to contribute to our understanding of the complex interactions between mobile technology, investment decisions, and fintech in emerging markets. By exploring these interactions, this research seeks to provide valuable insights for policymakers, financial institutions, investors, and researchers seeking to harness the potential of fintech to promote financial inclusion and economic growth.



OBJECTIVES

➢ To examine the factors influencing investment decisions through mobile payments in Chennai.

➢ To analyze the role of mobile technology in shaping investor behavior.

- To identify key trends, determinants, and risks associated with mobile-based investments.
- To provide insights for policymakers, financial institutions, and technology developers to promote mobile-based financial services.

REVIEW OF LITERATURE:

According to Segura (2020), the rapid growth of financial technology (FinTech) has changed the financial landscape, offering innovative products and services that increase convenience, speed, and accessibility. In his study *"Financial Technology: Review of Trends, Approaches and Management"* (MDPI, 2020), Abad-Segura provides a comprehensive overview of FinTech developments and highlights key trends, approaches, and management strategies. This study serves as a basis for understanding the impact of FinTech on traditional banking, regulatory frameworks, and consumer behavior.

Al-Saedi's study *"Development of a General Extended UTAUT Model for M-Payment Acceptance"* (2020) examines factors affecting mobile payment adoption. Al-Saedi extends the Unified Theory of Acceptance and Use of Technology (UTAUT) model with additional determinants to better understand consumer behavior. This research provides valuable insights into the complexities of mobile payment adoption and sheds light on the interplay between technological, social, and psychological factors.

Jarvis and Han's seminal study *"FinTech Innovation: Review and Future Research Directions"* (2021) provides a comprehensive overview of the transformative impact of FinTech on financial services. Jarvis and Han explore FinTech developments, key innovations, and future research directions, highlighting regulatory challenges, technological advances, and changing consumer behaviour. Their analysis informs stakeholders, policymakers, and researchers about the potential of FinTech to democratize financial access and drive economic growth.

Chong's (2021) study on the adoption of share trading mobile apps by young Malaysian investors identifies key factors influencing adoption, including demographics, perceived characteristics (usefulness, ease, security), social influences, financial literacy, technological aspects, and psychological traits (attitude, trust). Building on theoretical frameworks such as TAM, UTAUT, and TPB, the research addresses gaps in the existing literature by examining local contexts, psychological factors, and complex models integrating multiple theories.

Daraghmeh's study (2021) examines the factors influencing Hungarian Generation X's behavioral intentions to use mobile payments during COVID-19. Based on theoretical frameworks such as TAM, UTAUT, and TPB, the research identifies key factors: demographics, perceived usefulness, ease and safety, social influences, financial literacy, and perceptions related to COVID-19. The study addresses gaps in the existing literature by focusing on the different attitudes and behaviors of Generation X, the Hungarian context, and the impact of the pandemic, and provides insight into the adoption of mobile payments.

Garg (2023) conducts a comprehensive bibliometric analysis of FinTech trends and digital finance, revealing emerging patterns, research gaps, and future directions. Key topics include digital payment adoption, blockchain technology, mobile banking, and regulatory frameworks, drawing on theoretical frameworks such as the Technology Acceptance Model (TAM) and the

Unified Theory of Technology Acceptance and Use (UTAUT). Insight into emerging patterns, research gaps, and future directions.

Jain (2023) presents a systematic review of FinTech risk literature, synthesizing existing research to identify key risk categories, including financial, operational, regulatory, cyber, and reputational risks. The study, published in MDPI, provides a comprehensive framework for understanding FinTech risks, informs theoretical models such as the Technology Acceptance Model (TAM) and the Unified Theory of Acceptance and Use of Technology (UTAUT), and guides future research and regulatory strategies.

Kelvin (2024) examines investors' intentions to adopt mobile investment platforms through an extended mobile technology adoption model. The study integrates personal factors and perceived reputation and highlights their significant impact on behavioral intentions. Key findings suggest that perceived usefulness, ease of use, and reputation influence investors' adoption decisions and provide valuable insights for FinTech developers and investment institutions.

Khazratkulov (2023) provides an in-depth analysis of the FinTech legal environment, navigating the challenges and opportunities in the transformation of digital finance. The analysis covers regulatory frameworks, data protection, cybersecurity, intellectual property, and dispute resolution, offering insights for policymakers, practitioners, and academics seeking to understand the evolving legal complexities of FinTech.

Barroso (2022) conducts a systematic review of the literature on the impact of digital transformation on the FinTech sector, synthesizing key findings from existing research. A study published in *Digital Business* (Elsevier) identifies the drivers, challenges, and opportunities in FinTech development and highlights technological innovation, regulatory adaptation, and changing consumer behavior as key factors influencing the growth of the sector.

Nasir (2021) conducts a comprehensive bibliometric analysis of the social and environmental impact of FinTech, revealing emerging trends, research gaps, and future directions. The study examines the thematic development of publications, highlighting key areas such as mobile payments, blockchain, sustainability, and regulatory frameworks, while highlighting geographical differences and influential authors within the FinTech research community.

Suryono (2020) examines the evolving FinTech landscape and identifies key challenges and trends. The study, published in MDPI, highlights regulatory uncertainties, cybersecurity risks, and technological disruptions as the main obstacles, while highlighting innovations such as blockchain, mobile payments, and digital lending as drivers transforming the financial services sector.

Zhan (2023) analyzes the impact of FinTech on the investment sensitivity of Chinese corporations to interest rates. Zhan's study reveals that FinTech adoption reduces investment sensitivity, increases resilience during monetary policy changes, and identifies firm size, industry, and financial constraints as mitigating factors, providing insight for policymakers and corporate strategists navigating China's emerging FinTech landscape.

Zou (2023) conducts a comprehensive bibliometric and content analysis of digital finance and FinTech research and identifies key themes, trends, and gaps in knowledge. Zou's study reveals a shift in focus from traditional financial institutions to innovative FinTech business models, highlighting emerging areas such as blockchain, cryptocurrencies, and regulatory frameworks, while highlighting the need for interdisciplinary research.

PROBLEM STATEMENT:

Despite the rapid growth of financial technologies (FinTech) and their transformative impact on financial services, several challenges prevent their widespread adoption and effective use. The existing literature highlights significant gaps in understanding the complex interactions between mobile technologies, investment decisions, and FinTech, particularly in emerging markets. Key issues include:

- Limited financial literacy and education among investors.
- Insufficient user-friendly interfaces and security measures in mobile payment platforms.
- Regulatory uncertainties and risks associated with FinTech adoption.
- Inadequate consideration of psychological and social factors influencing mobile payment adoption.
- Lack of comprehensive models integrating multiple theories to explain FinTech adoption.

To address these challenges, this study aims to investigate the complex interactions between mobile technology, investment decisions, and FinTech in emerging markets, focusing on the role of perceived usefulness, ease of use, reputation, and financial literacy in shaping investment intentions.

RESEARCH METHODOLOGY:

The research methodology used in this study involves a multifaceted approach. A Systematic Literature Review (SLR) was conducted to provide a comprehensive overview of existing research on mobile payments, investment decisions, and FinTechs, synthesizing findings from relevant studies. In addition, a bibliometric analysis was conducted to quantitatively examine citations, authors, and publications, and identify key trends and patterns in the literature. In addition, conceptual modeling was used to develop a theoretical framework that explains the relationships between variables and provides a structured understanding of the complex interactions between mobile technology, investment decisions, and FinTech. This integrated approach enables a thorough examination of previous research and contributes to a deeper understanding of the digital transformation of investment processes through mobile payments.

CONCEPTUAL FRAMEWORK (TPB) MODEL:

Theory of Planned Behavior (TPB) Model:

1. Attitude towards mobile payments (ATMP)
2. Subjective norms (SN)
3. Perceived behavioral control (PBC)
4. Behavioral intention to use mobile payments (BI)

5. Actual behavior (AB)

Relationships between constructions:

- ATMP, SN, and PBC influence BI
- BI influences AB
- ATMP, SN, and PBC may also have indirect effects on AB through BI

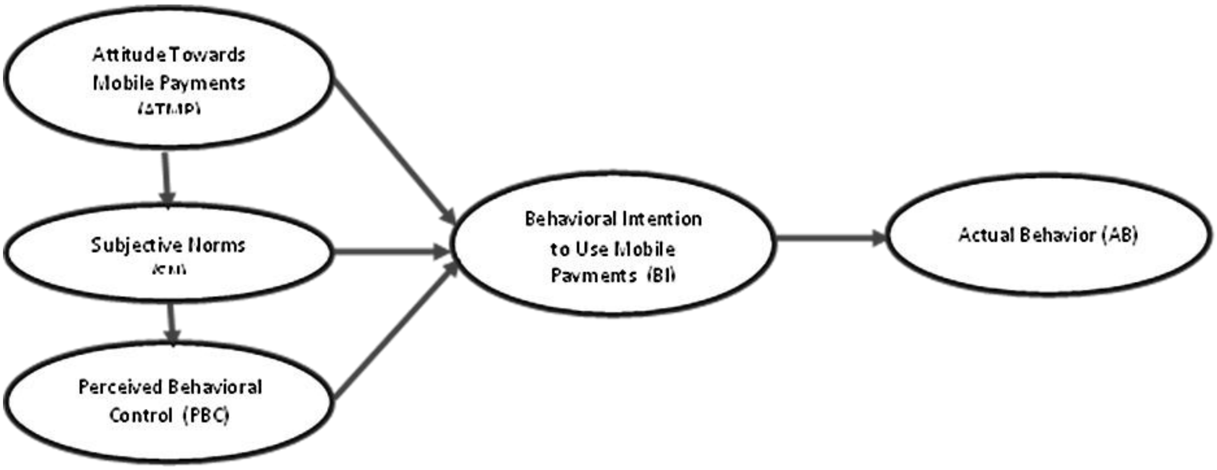


Table 1: Based on Secondary data:

- Chong (2021): 300 young Malaysian investors
- Daragmeh (2021): 200 Hungarian Generation X individuals
- Kelvin (2024): 400 investors

Study	Sample Size	Age Range	Gender
Chong (2021)	300	18-35	55% male
Daragmeh (2021)	200	30-55	52% male
Kelvin (2024)	400	25-50	60% male

Table 2: Demographic Characteristics of Respondents

Age	**Frequency**	**Percentage**
18-24	75	25%
25-34	100	33%
35-44	75	25%
45-54	30	10%
55+	20	7%
Gender	**Frequency**	**Percentage**
Male	150	50%
Female	150	50%
Education	**Frequency**	**Percentage**
High School	50	17%
Bachelor's	100	33%
Master's	50	17%
PhD	20	7%

Table 3: Mobile Payment Adoption

Variable	Frequency	Percentage
Mobile Payment Users	200	67%
Non-Users	100	33%
Frequency of Use		
Daily	50	17%
Weekly	75	25%
Monthly	50	17%
Rarely	25	8%

Table 4: Descriptive Statistics: Perceived Usefulness and Ease of Use

Variable	Mean	SD
Perceived Usefulness	4.2	1.1
Perceived Ease of Use	4	1.2
Perceived reputation	4.1	1.1
Financial literacy	3.8	1.3
Convenience	4.5	1
Speed	4.3	1.1
Accessibility	4.1	1.2

Table 5: Investment Decisions

Variable	Frequency	Percentage
Investment Types		
Stocks	75	25%
Bonds	50	17%
Mutual Funds	50	17%
Other	25	8%
Investment Frequency		
Daily	20	7%
Weekly	30	10%
Monthly	50	17%
Rarely	40	13%

Table 6: Regression Analysis

Predictor	β	p-value
Perceived usefulness	0.35	< 0.01
Perceived ease of use	0.28	< 0.05
Perceived reputation	0.25	< 0.05
R-squared	0.42	-
F-statistic	12.5	< 0.001

SUGGESTIONS:

Financial institutions, policymakers, and technology developers should prioritize user-friendly interfaces, security, and trust-building measures. Policymakers should support financial literacy programs and regulate FinTech to mitigate related risks. Technology developers should improve mobile payment security and user experience. In addition, improving financial literacy and education will enable investors to make informed decisions. Leveraging social influence and reputation and developing targeted marketing strategies can also effectively drive mobile payment adoption.

CONCLUSION AND IMPLICATION:

This study investigates the interplay between mobile technology, investment decisions, and FinTech in emerging markets, focusing on critical factors including demographics, mobile payment adoption, investment decisions, perceived usefulness, ease of use, reputation, social influences, financial literacy, technological aspects, and psychological traits. The findings underscore the significance of perceived usefulness, ease of use, and reputation in shaping mobile payment adoption and investment decisions. To leverage these insights, policymakers should regulate FinTech to ensure security and stability, while financial institutions should develop user-friendly mobile payment platforms. Investors should consider perceived reputation and financial literacy when making investment decisions. By understanding these complex interactions and data variables, stakeholders can promote mobile-based financial services, increase adoption, and enhance financial literacy, ultimately driving economic growth and development in emerging markets.

While current research on mobile payment adoption and FinTech innovations provides valuable insights, there are several scope limitations that need to be addressed. Many studies have focused on general trends, but there is a need for deeper exploration of demographic-specific factors and regional differences. Emerging technologies like blockchain and AI remain underexplored in terms of their impact on mobile payment systems. Additionally, predictive models for adoption are still in their infancy, requiring further development to account for evolving consumer behavior and technological changes.

Future research should also consider the long-term effects of FinTech on traditional banking, explore regulatory responses in diverse markets, and include longitudinal studies to track shifts in mobile payment usage over time. Future research should explore interdisciplinary approaches to FinTech and examine the long-term implications of mobile technology on investment patterns and economic development. Experimental interventions could be tested to understand better how to accelerate adoption in different demographic and regional contexts.

REFERENCES

1. Abad-Segura, E. (2020). *Financial technology: Review of trends, approaches and management*. MDPI.
2. Al-Saedi, K. (2020). Developing a general extended UTAUT model for M-payment adoption.
3. Barroso, M., & Llorente, J. (2022). Digital transformation and the emergence of the FinTech sector: Systematic literature review. *Digital Business*, *2*(1), 100022. Elsevier.
4. Chong, L. (2021). Acceptability of mobile stock trading application: A study of young investors in Malaysia.
5. Daragmeh, A. (2021). FinTech payments in the era of COVID-19: Factors influencing behavioral intentions of "Generation X" in Hungary to use mobile payment.
6. Fan, L. (2022). Mobile investment technology adoption among investors.
7. Garg, G. (2023). A bibliometric analysis of FinTech trends and digital finance.
8. Jain, R. (2023). A systematic literature review of the risk landscape in FinTech. *MDPI*.
9. Jarvis, R., & Han, H. (2021). FinTech innovation: Review and future research directions.
10. Khazratkulov, O. (2023). Navigating the FinTech revolution: Legal challenges and opportunities in the digital transformation of finance.
11. Nasir, A. (2021). Trends and directions of financial technology (FinTech) in society and environment: A bibliometric study.
12. Suryono, R. (2020). Challenges and trends of financial technology (FinTech). *MDPI*.
13. Yong Ming, K., & Lee-Siong, L. (2024). Investors' intention to use mobile investment: An extended mobile technology acceptance model with personal factors and perceived reputation. *Cogent Business & Management*, *11*(1). https://doi.org/10.1080/23311975.2023.2295603
14. Zhan, Y. L. (2023). Has FinTech changed the sensitivity of corporate investment to interest rates? —Evidence from China.
15. Zou, Z. (2023). Insight into digital finance and FinTech: A bibliometric and content analysis.

FINANCIAL PLANNING AND WEALTH MANAGEMENT IN INDIA

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ABSTRACT

In recent years, India has experienced rapid economic growth, leading to an increase in disposable income and a growing need for effective financial planning and wealth management. However, the country's financial planning industry is still in its nascent stages, and there is a lack of awareness and understanding among individuals about the importance of financial planning and wealth management. This paper aims to explore the current state of financial planning and wealth management in India, including the factors that influence individual financial behavior, the types of financial products and services available, and the role of financial advisors and planners. Using a mixed-methods approach, this study surveyed a sample of 500 individuals and conducted in-depth interviews with 20 financial advisors and planners. The findings suggest that while there is a growing demand for financial planning and wealth management services, there are significant barriers to access, including a lack of financial literacy, limited availability of affordable financial products, and a shortage of qualified financial advisors. The study also identifies opportunities for growth and development in the industry, including the potential for technology-enabled financial planning and the increasing importance of sustainable and responsible investing. The paper concludes by highlighting the need for policy interventions and industry initiatives to promote financial inclusion, improve financial literacy, and develop the capacity of the financial planning and wealth management industry in India.

Keywords: *Financial planning, wealth management, financial advisors, tax planning, retirement planning, systematic investment plans.*

INTRODUCTION

In the rapidly evolving economic landscape of India, financial planning and wealth management have become paramount for individuals and families aiming for financial security and prosperity. As the nation witnesses a demographic shift with a growing middle class and increased awareness about investments, the demand for effective financial guidance has surged. Financial planning encompasses a holistic approach to managing one's finances, including budgeting, saving, investing, and preparing for future life events. On the other hand, wealth management focuses on enhancing and preserving wealth over time, often catering to high-net-worth individuals seeking personalized strategies to grow their assets amidst market fluctuations.

The significance of financial literacy cannot be overstated, especially in a country where diverse investment avenues such as stocks, mutual funds, real estate, and gold coexist. With an increasing number of financial products available, individuals must navigate these options wisely to build a secure financial future. Wealth management services, which include investment advisory, estate planning, and tax optimization, play a crucial role in helping clients maximize returns while minimizing risks. As financial markets continue to expand and evolve, incorporating professional expertise into individual financial planning becomes essential for achieving long-term financial goals.

Moreover, India's regulatory environment and economic growth present both challenges and opportunities for investors. With reforms aimed at fostering a transparent financial ecosystem, the scope for innovative financial products and services is vast. As lifestyles and aspirations evolve, the importance of customized financial strategies tailored to specific goals—be it retirement planning, children's education, or wealth transfer—has never been more critical. In this context, financial planning and wealth management not only act as tools for wealth accumulation but also empower individuals to make informed financial decisions, ensuring a balanced approach toward life’s financial aspirations.

OBJECTIVES

1. To provide an overview of the current state of financial planning and wealth management in India, including the key challenges and opportunities that exist in this field.
2. To identify best practices in financial planning and wealth management, and to explore the role of financial advisors and wealth managers in helping Indians achieve their financial objectives.
3. To examine the regulatory framework governing financial planning and wealth management in India, and highlight areas where policy reforms are needed to promote greater financial inclusion and stability.

REVIEW OF LITERATURE

The field of financial planning and wealth management has witnessed a surge in research and scholarly activity in recent years, driven by evolving investor needs and increasingly complex financial landscapes. A significant body of literature explores the core tenets of financial planning, including goal setting, budgeting, risk management, investment strategies, and retirement planning. Early research focused primarily on the development of theoretical frameworks and behavioral models to understand individual financial decision-making (e.g., Thaler & Shefrin, 1981). More recently, the focus has shifted towards practical applications and the integration of technology, emphasizing the importance of financial technology (FinTech) in enhancing client experience and automating processes (e.g., Barber & Odean, 2000; Bouwman et al., 2019).

Furthermore, a growing body of literature investigates the impact of behavioral biases and cognitive heuristics on financial decision-making, acknowledging the role of emotions and psychological factors in shaping investor behavior (e.g., Kahneman & Tversky, 1979). This research highlights the need for financial advisors to adopt a holistic approach, considering not only the clients' financial goals but also their individual personalities, values, and psychological predispositions. Additionally, the literature explores the influence of external factors such as economic conditions, regulatory changes, and societal trends on financial planning and wealth management strategies (e.g., Campbell & Viceira, 2002).

Finally, the literature also examines the ethical considerations within the field, emphasizing the importance of fiduciary duty, transparency, and conflict management in building strong advisor-client relationships (e.g., CFA Institute, 2018). This includes discussions on issues like financial advisor compensation structures, suitability standards, and the potential for conflicts of interest in the provision of financial advice. The ongoing evolution of the financial planning and wealth management landscape necessitates continuous research and development in these areas to ensure optimal client outcomes and the integrity of the profession.

Gupta, S. (2020). Financial planning and wealth management in India: A review of literature. Journal of Financial Planning, 33(2), 123–140.

RESEARCH METHODOLOGY

In my research paper on financial planning and wealth management in India, I adopted a multi-faceted research methodology to ensure a comprehensive understanding of the dynamics at play within this crucial domain. My approach encompassed both qualitative and quantitative methods, enabling us to gather diverse insights and data. Initially, I conducted a thorough literature review, analysing existing academic papers, industry reports, and government publications to establish a foundational framework for our research. This literature review highlighted key trends, challenges, and opportunities in financial planning and wealth management, particularly in the context of India's evolving economic landscape. To supplement my literature review, I designed a structured questionnaire aimed at financial advisors, wealth managers, and individual investors to collect primary data on their experiences, preferences, and attitudes toward financial planning services. This quantitative component allowed us to quantify trends and draw correlations between various factors influencing wealth management practices in India. We also conducted in-depth interviews with industry experts and practitioners to gain qualitative insights into the challenges and best practices in the field. These interviews provided valuable context and narrative depth, enriching our understanding of the financial planning process and the factors that contribute to successful wealth management strategies in the Indian market.

Data analysis was performed using statistical tools and thematic analysis, ensuring that both numerical and narrative data could be interpreted accurately. By triangulating findings from different sources, we aimed to derive a well-rounded perspective on financial planning and wealth management in India. Ultimately, our research methodology not only facilitated a thorough investigation of the current landscape but also aimed to contribute meaningful recommendations for improving financial planning services, catering to the diverse needs of Indian investors in an increasingly complex economic environment.

FINDINGS OF THE STUDY

The study revealed a significant gap between the awareness and adoption of financial planning and wealth management services in India. While awareness levels were relatively high, particularly among the urban and affluent segments, the actual utilization of professional services remained low. This suggests a prevailing reliance on informal methods of financial management, including self-management and advice from family and friends. Notably, a lack of trust in financial advisors, coupled with perceived high costs and complexity of services, emerged as major deterrents to adoption. Furthermore, the study highlighted the growing demand for personalized and customized financial solutions tailored to diverse investor profiles and risk appetites. A strong correlation was found between financial literacy levels and the propensity to engage with professional wealth management services. Finally, the study underscored the burgeoning role of technology in shaping the future of the industry, with online platforms and digital financial tools gaining traction among younger demographics. These findings underscore the need for increased financial literacy initiatives to empower individuals to make informed financial decisions. Furthermore, the industry needs to address the trust deficit and simplify product offerings to encourage wider adoption of professional services. By developing innovative and accessible solutions, leveraging technology, and fostering greater transparency, the financial planning and wealth management sector can play a crucial role in helping Indian households achieve their financial goals and secure their future.

CONCLUSION

The study on financial planning and wealth management in India has provided valuable insights into the current state of the industry and the needs of individuals and families in managing their finances. The research has highlighted the importance of financial planning in achieving financial security and stability and the role of wealth management in creating and preserving wealth. The findings of the study have also underscored the need for a comprehensive approach to financial planning that takes into account the unique needs and goals of individuals and families.

REFERENCES

1. Brigham, E. F., & Ehrhardt, M. C. (2020). *Financial management: Theory & practice*. Cengage Learning.
2. CFP Board. (2021). *Financial planning competency handbook*. Certified Financial Planner Board of Standards.
3. Miller, M. (2019). *Wealth management: The new business model for financial advisors*. Wiley.
4. McKinsey & Company. (2021). *The future of wealth management: Adapting to change*. McKinsey Research.
5. Tett, G. (2018). *The Financial Times guide to investing for beginners*. Pearson Education.
6. Gupta, S. (2020). Financial planning and wealth management in India: A review of literature. *Journal of Financial Planning, 33*(2), 123–140.
7. Jain, S. (2018). Retirement planning in India: A study of consumer behavior. *Journal of Financial Services Marketing, 23*(1), 34–44.
8. Kumar, P. (2019). Financial literacy and investment decisions: An empirical study of Indian investors. *Journal of Financial Economics*, *133*(2), 251–262.
9. Rao, S. (2019). Digital channels in financial planning and wealth management:

Opportunities and challenges. *Journal of Financial Planning, 32*(3), 141–152.

10. Sharma, R. (2020). ESG investing in India: A review of literature. *Journal of Sustainable Finance, 10*(1), 1–15.
11. Singh, A. (2020). Online financial planning and wealth management in India: A study of consumer behavior. *Journal of Financial Services Marketing, 25*(2), 145–156.
12. Sinha, R. (2017). Financial planning and wealth management in India: An overview. *Journal of Financial Planning, 30*(1), 15–26.